BILL NO. S-81-04-17

SPECIAL ORDINANCE NO. S-109-81

AN ORDINANCE approving Civil City Purchase Order No. 4-09480 with The Treaty Company for fire hydrants for the Water Maintenance and Service Department.

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. That Civil City Purchase Order No. 4-09480 dated March 20, 1981, between the City of Fort Wayne, by and through the City Purchasing Director and the Board of Public Works and The Treaty Company, for the purchase of 200 fire hydrants to be used by the Water Maintenance and Service Department, at a coat of $91,358.00, all as more particularly set forth in said Purchase Order, which is on file in the Office of the Department of Purchasing and is by reference incorporated herein and made a part hereof, be and the same is in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and approval by the Mayor.

COUNCILMAN

APPROVED AS TO FORM AND LEGALITY APRIL 10, 1981.

JOHN E. HOFFMAN, CITY ATTORNEY

Read the first time in full and on motion by Burns, seconded by Stier, and duly adopted, read the second time by title and referred to the Committee City Utilities (and the City Plan Commission for ~~recommendation~~) and ~~public hearing~~ to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock ___ M.,E.S.T.

DATE: 4-14-81

Charles W. Westerman
CHARLES W. WESTERMAN
CITY CLERK

Read the third time in full and on motion by Burns, seconded by Stier, and duly adopted, placed on its passage. PASSED ~~(LOST)~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT	TO-WIT:
TOTAL VOTES	8			1	
BURNS	✓				
EISBART	✓				
GiaQUINTA	✓				
NUCKOLS	✓				
SCHMIDT, D.	✓				
SCHMIDT, V.				✓	
SCHOMBURG	✓				
STIER	✓				
TALARICO	✓				

DATE: 4-28-81

Charles W. Westerman /re
CHARLES W. WESTERMAN - CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ZONING MAP)~~ ~~(GENERAL)~~ ~~(ANNEXATION)~~ (SPECIAL) ~~(APPROPRIATION)~~ ORDINANCE ~~(RESOLUTION)~~ No. S-109-81 on the 28th day of April, 19 81.

ATTEST: Charles W. Westerman /re
CHARLES W. WESTERMAN - CITY CLERK

(SEAL) John Nuckols
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 29th day of April, 19 81, at the hour of 11:30 o'clock A. M.,E.S.T.

Charles W. Westerman /re
CHARLES W. WESTERMAN - CITY CLERK

Approved and signed by me this 30th day of April 19 81, at the hour of 2 o'clock P M.,E.S.T.

WINFIELD C. MOSES, JR.
MAYOR

BILL NO. S-81-04-17

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON City Utilities TO WHOM WAS REFERRED AN ORDINANCE approving Civil City Purchase Order No. 4-09480 with The Treaty Company for fire hydrants for the Water Maintenance and Service Department

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE, DO PASS.

PAUL M. BURNS, CHAIRMAN

VIVIAN G. SCHMIDT, VICE CHAIRMAN

BEN A. EISBART

SAMUEL J. TALARICO

ROY J. SCHOMBURG

4-28-81
DATE

CONCURRED IN
CHARLES W. WESTERMAN, CITY CLERK

THE CITY OF FORT WAYNE

CITY-COUNTY BUILDING • ONE MAIN STREET • FORT WAYNE, INDIANA 46802

board of public works

March 23, 1981

The Common Council
Fort Wayne, Indiana

SUBJECT: City Utilities P.O. 4-09480 for Fire Hydrants for the Water Maintenance and Service Department.

Gentlemen and Mrs. Schmidt:

City Utilities Purchase Order 4-09480 has been assigned to the Treaty Company for the purchase of 200 Fire Hydrants for the Water Maintenance and Service Department.

After analyzing all bids and taking in consideration all costs including discounts for payment of invoices and discounts for payment of invoices and discounts on parts. The Bid from the Treaty Company represented the lowest and best bid.

As further consideration, the Hydrants bid by Treaty are manufactured by Mueller Corporation and are compatible with all Hydrants purchased for the last three years. This results in a lower cost in stocking repair parts.

The Board of Public Works respectfully requests and "prior approval". Special Ordinance for formal approval will be submitted in the near future.

Sincerely,

BOARD OF PUBLIC WORKS

MARK L. AKERS, CHAIRMAN

CITY OF FORT WAYNE

WIN MOSES, JR., MAYOR

sa
APPROVED:

AN EQUAL OPPORTUNITY EMPLOYER

THE COMMON COUNCIL

attest:

Charles Westerman, City Clerk

FORM DP-3
APPROVED BY THE STATE BOARD OF ACCOUNTS FOR THE CITY OF FORT WAYNE 1983.

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET
ROOM 470
FORT WAYNE, INDIANA 46802

PURCHASE ORDER NUMBER
4-09480

DATE 3/20/81
REF. NO. 592
REQ. NO. 70-144-11 3/24/81

THE ABOVE INFORMATION MUST APPEAR ON ALL INVOICES, BILLS OF LADING, DELIVERY TICKETS, PACKAGES AND CORRESPONDENCE.
INVOICE IN DUPLICATE.

THIS PURCHASE ORDER ISSUED BY:
DEPT.

MAIL ALL CORRESPONDENCE, CLAIM VOUCHERS ETC. TO:

WATER MAINTENANCE & SERVICE 220
415 East Wallace Street
Fort Wayne, Indiana 46803

291101
THE TREATY COMPANY
4020 North Wells
Fort Wayne, Indiana 46808

DELIVER TO:- SAME AS ABOVE
DEPARTMENT OR DIVISION

DATE WANTED

ADDRESS

APPROPRIATION AND FUND NUMBER

CASH DISCOUNT TERMS ____ % IF PAID WITHIN ____ DAYS FROM DELIVERY AND ACCEPTANCE OF GOODS OR PERFORMANCE OF SERVICES. (DEDUCTION FOR DISCOUNT SHOWN BELOW)

QUANTITY ORDERED	UNIT	MATERIALS, SUPPLIES OR SERVICES	UNIT PRICE	AMOUNT
		TAX EXEMPT (UNLESS OTHERWISE INDICATED)		
200	ea	Hydrant Traffic Type 5' 6" Bury	456.79	91,358.00
		Add or Deduct for each 6: variation in trench depth	9.80	
		Percentage of discount from included parts list	13%	
		(Mueller a-423)		
		All Hudrants should be 5-1/2ft. Bury e/d 150 mj inlet w/gaskets, bolts, and glands open left.		
		PRICES PER BID REFERENCE NO. 592		
		SUBJECT TO COUNCILMANIC APPROVAL		

COMPLIANCE WITH THE DELIVERY DATE REQUESTED WILL AVOID "FOLLOW UP" CORRESPONDENCE.

NOTE
READ
INSTRUCTIONS ON THE BACK OF THIS ORDER

THE CONTRACTOR OR VENDOR, BY ACCEPTING THIS ORDER, AGREES TO THE GENERAL CONDITIONS AND TERMS OF AGREEMENT ON THE BACK OF THIS ORDER.

UNLESS OTHERWISE INDICATED THE PRICES SHOWN INCLUDE ALL CHARGES FOR DELIVERY, PACKING, ETC., NECESSARY TO COMPLETE DELIVERY TO DESTINATION SPECIFIED.

UNLESS OTHERWISE INDICATED THE PRICES SHOWN DO NOT INCLUDE TAXES OF ANY KIND.

EXEMPTION BLANKS WILL BE FURNISHED WHEN NECESSARY.

IND. SALES TAX EXEMP. CERTIF. NO. 34508

IF THIS ORDER DOES NOT AGREE WITH YOUR QUOTATION KINDLY RETURN IT WITH AN EXPLANATION.

FOR MORE INFORMATION CONTACT AARON M. GLUCK 423-7037

I HEREBY CERTIFY THAT THE COST OF THE ABOVE PURCHASE IS FULLY COVERED BY UNENCUMBERED BALANCES IN THE ABOVE FUNDS AND THAT THE EXPENDITURE THEREFOR HAS BEEN DULY AUTHORIZED AND APPROPRIATED.

City Controller

Per

I HEREBY CERTIFY UPON MY OWN PERSONAL KNOWLEDGE THAT THIS ORDER IS AUTHORIZED BY A PROPERLY EXECUTED AND APPROVED REQUISITION ON FILE IN THIS OFFICE.

Director of Purchases

Per

BID EVALUATION

ITEM: Fire Hydrants

BID #: 592

BIDDER	Front Page	Non-Col.	5% Bid Surety	Hydrant	+ or - 6" var.	Dis. on Parts List
Kennedy Valve						
Traverse City Iron Works						
Clow Corporation NO BID	—	—	—	—	—	—
Tri State						
Treaty Company	ok	ok	bond	[illegible] 456.79	± 9.80	[illegible] 13% PARTS LIST
American Cast Iron Pipe						
Dresser Mfg. Div. Dresser Ind.						
Mueller Company						
American Darling and Valve						
V.R. Meyers Pump [illegible] 34 per Thread lead	ok	ok	bond	[illegible] 448.65	± 7.40	net
Etna Supply						
Waterous Company, St. Paul	ok	ok	[illegible] 859799	[illegible] 424.00	± 9.00	net

Memorandum

To BOARD OF WORKS Date March 20, 1981

From Aaron M. Gluck, Director of Purchases

Subject Bid Reference Number 592

COPIES TO:

Attached are copies of Bids received for 1981 Requirements for Fire Hydrants for the Water Maintenance & Service Dept. Purchase Order Number 4-09480 has been assigned to the Treaty Company.

After analyzing all bids and taking in consideration all costs including discounts for payment of invoices and discounts on parts. The Bid from the Treaty Company represented the lowest and best bid.

As further consideration, the Hydrants bid by Treaty are manufactured by Mueller Corporation and are compatible with all Hydrants purchased for the last three years. This results in a lower cost in stocking repair parts.

Please include the attached supporting information when this ordinance is submitted to City Council for Approval. Also, please insure that no confirming Purchase Order Number is given to The Treaty Company until Purchasing receives written confirmation of Council Approval.

Prior Approval
3/24/81

Aaron M. Gluck, Director
Department of Purchases

Robert Anderson Jr.

Betty R. Collins

Council
4/14/81

70-144-11 3/24/81

FORM DP23 5-63

CITY OF FORT WAYNE
DEPARTMENT OF PURCHASES
Number One Main St., Ft. Wayne, Ind. 46802

INVITATION

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.

Ref. No. 592

Date 2-26-81

Date wanted 3-17-81

Fund Appropriation No.

*Mail all replies and correspondence, etc. to Att. of Aaron M. Gluck DEPARTMENT OF PURCHASES

Address Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department or Division Water Maintenance & Service

Address 415 East Wallace Street
Fort Wayne IN 46803

RETURN ORIGINAL TO THE CITY—RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids March 17, 1981 at 11:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 84568. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
		FIRE HYDRANTS - 1981 REQUIREMENTS		
		Estimated usage for January 1, 1981 thru December 31, 1981		
		The enclosed NON-COLLUSION AFFIDAVIT must be properly executed and returned as part of your bid.		
		We require a guaranteed firm price for the period January 1, 1981 thru December 31, 1981 and delivery to our yard within 30 days notification release. This will not be a one time purchase. It is anticipated that release quantities will be 25 to 30 hydrants per release..		
		Your parts list, with discounts, must accompany your bid.		
		Written confirmation will be sent by letter to the successful bidder after, necessary Councilmanic Approval, and the hydrants are to be delivered only upon issuance of a purchase order.		
		AFFIRMATIVE ACTION: YES On File _____ Attached		

Bid Bond required NO ☐ YES ☒ 5% Performance Bond NO. ☒ YES ☐

See Instruction Item No. 15 on reverse side hereof.

Terms NET XX% cash discount if paid within 30 days from delivery and acceptance of goods or completion of services.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications appying and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within ____ days from receipt of order.

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

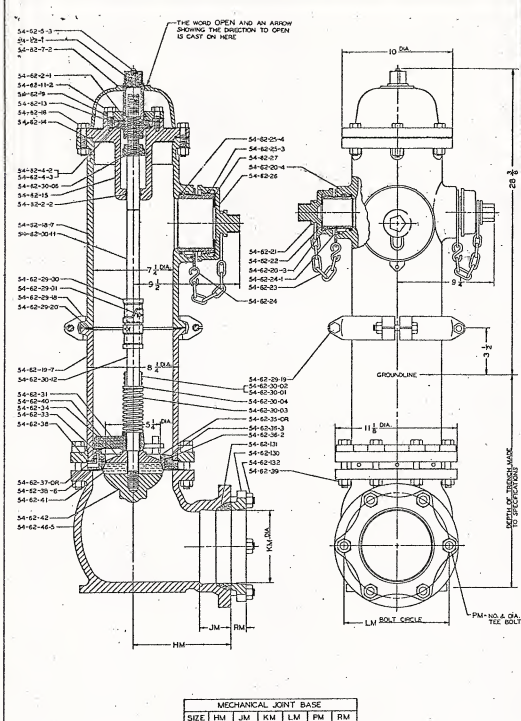
Kyra Myers

V.R. MYERS PUMP & SUPPLY, INC.

For Name of Company

Address 3427 North Clinton Street

City Fort Wayne, IN Date 3-16-81



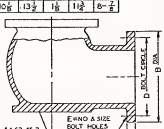
PARTS LIST			
PART NO.	QTY.	PART NAME	MATERIAL & ASTM
54-62-1	1	OPERATING NUT	BRONZE B147 ALLOY 8A
54-62-2-1	1	COVER O-RING	BUNA N
54-62-2-2	1	HOUSING O-RING	BUNA N
54-62-4-2	1	THRUST BEARING	STEEL
54-62-4-3	2	THRUST RACES	STEEL
54-62-3-3	1	PIPE PLUG	STEEL
54-62-7-2	1	HYDRANT COVER	CAST IRON
54-62-9	1	HOUSING COVER	CAST IRON
54-62-11-2	4	COVER CAP SCREWS	SEE NOTE 8
54-62-13	1	COVER GASKET	FIBER
54-62-14	1	HOUSING GASKET	ASBESTOS
54-62-15	1	HOUSING	CAST IRON
54-62-16	6	HOUSING BOLTS & NUTS	SEE NOTE 8
54-62-20-4	2	HOSE NOZZLE O-RINGS	BUNA N
54-62-18-7	1	UPPER BARREL	CAST IRON
54-62-19-7	1	LOWER BARREL	DUCTILE IRON
54-62-20-3	2	HOSE NOZZLES	BRONZE B62 OR B124
54-62-21	2	HOSE CAPS	CAST IRON
54-62-22	2	HOSE GASKETS	RUBBER
54-62-23	3	CAP CHAINS	STEEL
54-62-24	3	S-HOOK	STEEL
54-62-25-3	1	STEAMER NOZZLE	BRONZE B62 OR B124
54-62-26	1	STEAMER CAP	CAST IRON
54-62-27	1	STEAMER GASKET	RUBBER
54-62-24-1	3	NOZZLE PINS	STEEL
54-62-29-18	4	QUIK-FIX SEGMENTS	CAST IRON
54-62-29-19	4	SEGMENT BOLTS & NUTS	SEE NOTE 6
54-62-29-20	1	QUIK-FIX GASKET	RUBBER
54-62-29-30	1	ROD COUPLING	CAST IRON
54-62-29-31	2	COUPLING PINS	STAINSTEEL W/ SNAPPY BUTTON PINS
54-62-30-6	2	STOP PLATES	STEEL
54-62-30-02	3	STOP PLATE RIVETS	STEEL
54-62-30-03	1	HYDRANT SPRING	SPRING STEEL
54-62-30-04	1	SPRING PLATE	STEEL
54-62-30-06	1	TRAVEL STOP NUT	BRONZE B124 ALLOY 2
54-62-30-11	1	UPPER HYDRANT ROD	STEEL
54-62-30-12	1	LOWER HYDRANT ROD	STEEL
54-62-31	1	DRAIN LEVER	BRONZE B124 ALLOY 2
54-62-33	3	DRAIN LEVER WASHERS	RUBBER
54-62-34	3	DRAIN LEVER RIVETS	BRONZE
54-62-35-OR	1	HYDRANT SEAT	BRONZE B124 ALLOY 2
54-62-36-2	1	SEAT O-RING	BUNA N
54-62-36-3	1	SEAT O-RING	BUNA N
54-62-37-OR	1	DRAIN RING	BRONZE B124 ALLOY 2
54-62-38	1	DRAIN RING GASKET	ASBESTOS
54-62-39	6	BASE BOLTS & NUTS	SEE NOTE 6
54-62-40	1	HYDRANT VALVE TOP	CAST IRON
54-62-41	1	HYDRANT VALVE	RUBBER
54-62-42	1	HYD. VALVE BOTTOM	CAST IRON
54-62-38-6	1	BASE GASKET	ASBESTOS
54-62-46-2	1	FLANGED BASE	CAST IRON
54-62-46-3	1	HUB BASE	CAST IRON
54-62-46-5	1	MECH.-JOINT BASE	CAST IRON
54-62-46 AC	1	ASBS-CEMENT BASE	CAST IRON
54-62-130	1	MECH. JOINT GLAND	CAST IRON
54-62131	1	MECH. JOINT GASKET	RUBBER
54-62132	4016	M.J. BOLTS & NUTS	COR-TEN
54-62-25-4	1	STEAMER NOZ O-RING	BUNA N

NOTES

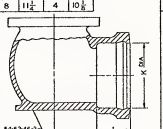
1. SIZE AND SHAPE OF NUT ON OPERATING NUT AND CAPS, THREADING ON NOZZLES AND CAPS, AND THE DIRECTION OF OPENING MADE TO SPECIFICATIONS.
2. HYDRANT ROD HAS A BRONZE SLEEVE AT O-RING PART NO. 54-62-2-2.
3. CAP CHAINS ARE NOT FURNISHED UNLESS SPECIFIED.
4. UPPER BARREL CAN BE ROTATED 360°.
5. ALL CAST IRON IS ASTM A126 CLASS B
6. BOLTS AND NUTS ARE RUSTPROOFED STEEL ASTM A307 GRADE B IN ACCORDANCE WITH AWWA C502.
7. WORKING PRESSURE 150 PSI-TEST PRESSURE 300 PSI.
8. ALL HYDRANTS WITH CAST DATE ON UPPER BARREL OF 1990 OR LATER WILL BE SUPPLIED WITH AMLOK NOZZLES UNLESS SPECIFICALLY ORDERED WITH LEADED IN NOZZLES.

MECHANICAL JOINT BASE						
SIZE	HM	JM	KM	LM	PM	RM
4	9	2 1/2	4 5/8	7 1/2	4-3/4	1 1/2
6	8 1/2	2 1/2	7	9 1/2	6-3/4	1 1/2
8	9 1/2	2 1/2	9 5/8	11 1/2	6-3/4	1 1/2

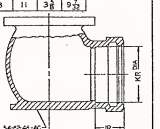
FLANGED BASE				
SIZE	A	B	C	D	E
4	10	9	10	7 1/2	8-3/4
6	10	11	1	9 1/2	8-3/4
8	10 1/2	13 1/2	1 1/8	11 1/2	8-3/4



HUB BASE			
SIZE	H	J	K
4	9 1/2	4	5 3/4
6	10 1/2	4	7 3/4
8	11 1/2	4	10 1/4



A-C BASE			
SIZE	HR	JR	KR
4	9 1/2	3 1/2	4 23/32
6	10 1/2	3 1/2	7 1/32
8	11	3 1/2	9 3/32



AMERICAN VALVE & HYDRANT
BIRMINGHAM, ALABAMA

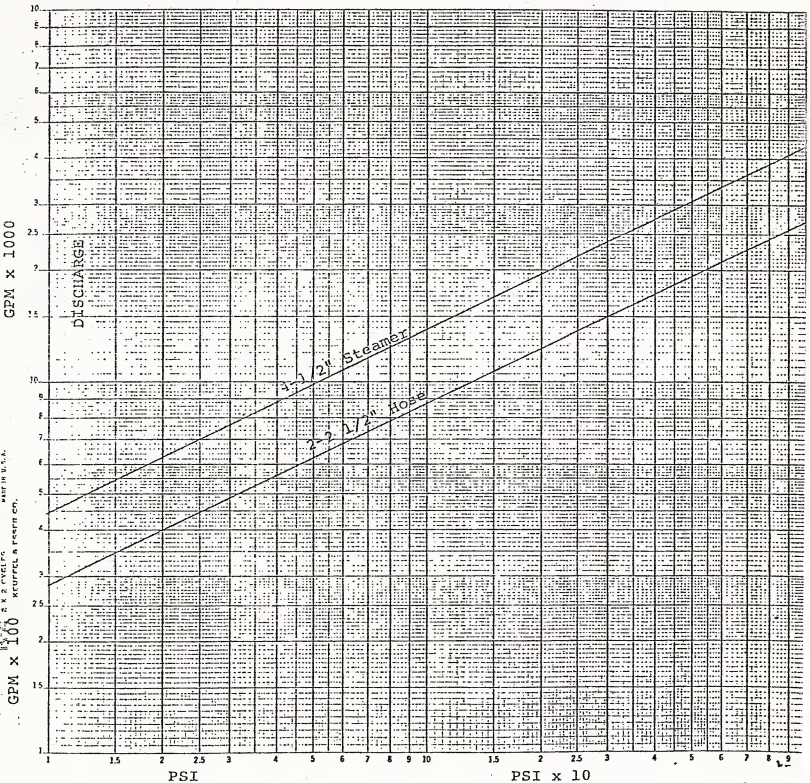
5 1/4 INCH B 62 B HYDRANT
QUIK-FIX
WITH TWO HOSE AND ONE STEAMER NOZZLES - AMLOK

DRAWN BY: JTM	INSTALLATION NO
CHECKED BY: JLW	15253
DATE APRIL 4, 1977	

REVISED 10-15-80

AMERICAN-DARLING 5-1/4" B62B HYDRANT

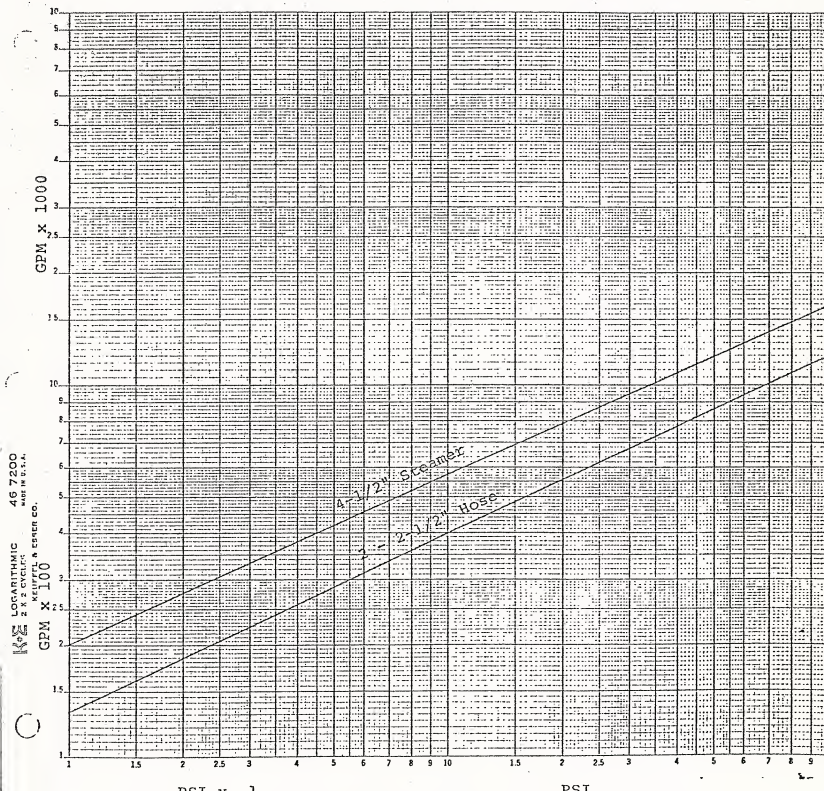
FLOW RATE vs. INLET PRESSURE



INLET PRESSURE - (Calculated Pressure at the nozzle elevation - to obtain pressure at 6" inlet add difference in elevation in PSI)

AMERICAN DARLING 5-1/4" B62B HYDRANT

FLOW RATE VS. FRICTION LOSS



Estimated Usage - 200

Hydrant Traffic Type 5' 6" Bury	$	448.65
Add or Deduct for each 6: variation in trench depth	$	7.40
Percentage of discount from included parts list	$	NET

ALL HYDRANTS SHOULD BE 5 1/2 ft. BURY E/D 150 MJ INLET W/GASKETS, BOLTS, AND GLANDS - OPEN LEFT.

NOTE: RELEASE QUANTITY 34 Per Truckload

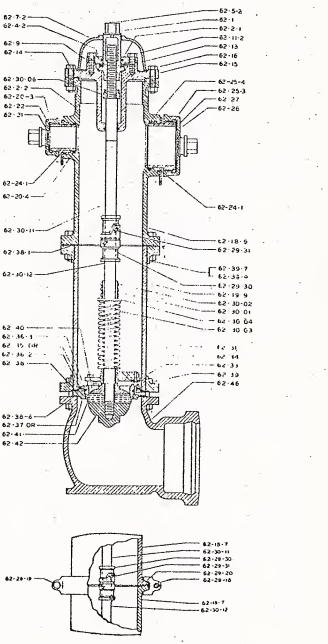
AMERICAN B-62-B

5¼" B-62-B REGULAR, TRAFFIC & QUIK-FIX HYDRANT REPAIR PARTS

PART NUMBER	PART NAME	QTY. REQ'D.	UNIT PRICE
62-1	Operating Nut w/Pipe Plug	1	$50.40
62-2-1	Housing Cover O-Ring	1	1.40
62-2-2	Housing O-Ring	1	1.40
62-4-2	Thrust Bearing W/Races	1	4.50
62-5-3	Pipe Plug	1	.85
62-7-2	Hydrant Cover	1	19.45
62-9	Housing Cover	1	14.10
62-11-2	Housing Cover Cap Screws	4	.90
62-13	Housing Cover Gasket	1	1.55
62-14	Housing Gasket	1	1.85
62-15	Housing	1	61.05
62-16	Housing Bolts and Nuts	6	1.20
62-18-9	Upper Hydrant with 2 Hose Outlets Add for Steamer Outlet	1	145.85 9.30
62-19-9	Lower Hydrant Barrel—5' Trench Add or Deduct for each 6" variance in trench depth	1	185.15 5.10
62-20-3	Hose Nozzles—Amlok		21.00
62-20-4	Hose Nozzle O-Ring		1.75
62-21	Hose Nozzle Caps		11.50
62-22	Hose Cap Gasket		1.05
62-23-1	Nozzle Cap Chain		2.65
62-23-2	S-Hook		.35
62-24-1	Nozzle Pin		.55
62-25-3	Steamer Nozzle — Amlok		61.40
62-25-4	Steamer Nozzle O-Ring		2.25
62-26	Steamer Nozzle Cap		25.50
62-27	Steamer Cap Gasket		1.85
62-29-30	Rod Coupling	1	11.40
62-29-31	Rod Coupling Pins	2	1.60
62-30-11	Upper Hydrant Rod	1	42.40
62-30-12	Lower Hydrant Rod—5' Trench Add or Deduct for each 6" variance in length	1	46.20 1.45
62-30-01	Stop Plate	2	.90
62-30-02	Stop Plate Rivets	3	.65
62-30-03	Spring	1	13.40
62-30-04	Spring Plate	1	2.25
62-30-06	Travel Stop Nut	1	6.30
62-31	Hydrant Drain Lever	1	36.00
62-33	Drain Lever Washers	3	1.35
62-34	Drain Lever Rivets	3	.70
62-35-OR	Hydrant Seat	1	54.30
62-36-2	Seat O-Ring (Outside)	1	3.95
62-36-3	Seat O-Ring (Inside)	1	3.15
62-37-OR	Drain Ring	1	73.00
62-38	Drain Ring Gaskets	1	1.85
62-38-1	Barrel Gasket	1	1.90
62-38-6	Base Gasket	1	1.90
62-39	Base Bolts and Nuts	6	2.25
62-39-7	Frangible Bolts & Nuts (Traffic Model)	8	3.15
62-39-9	Barrel Bolts & Nuts (Regular Model)	8	2.25
62-40	Hydrant Valve top	1	12.15
62-41	Hydrant Valve	1	18.00
62-42	Hydrant Valve Bottom	1	16.70
62-46	Hydrant Base with	1	139.85
-5	4 inch Mechanical Joint 6 inch Mechanical Joint		149.85
-2	4 inch Flange 6 inch Flange		120.80 129.35
-AC	4 inch Asbestos-Cement 6 inch Asbestos-Cement		116.25 124.40
	Operating Wrench		16.85
	Seat Wrench		77.20

62-18-7	Upper Hydrant with 2 Hose Outlets Add for Steamer Outlet	1	147.35 9.30
62-19-7	Lower Hydrant Barrel—5' Trench Add or Deduct for each 6" variance in trench depth	1	187.05 5.10
62-29-18	Quik-Fix Segments	4	6.30
62-29-19	Segment Bolt & Nut	4	1.60
62-29-20	Quik-Fix Gasket	1	1.55

NOTE: 1. Part 62-30-11 includes Rod Sleeve.
2. Part 62-30-12 includes Stop Plates & Rivets.
3. 62-39-31 includes Cotter Pins.
4. 62-31 includes Lever Washers & Lever Rivets.
5. 62-46-5 includes MJ Acc.
6. 62-20-3 & 25-3 includes Nozzle Pin, Spacer, & O-Ring.



All Prices F.O.B. Shipping Point.

PRICE SCHEDULE
Effective January 12, 1981

5¼" B-62-B HYDRANT EXTENSION BARRELS

HYDRANT *GROUNDLINE* EXTENSION BARREL KIT

5¼" B-62-B		6"	12"	18"	24"	30"	36"
Barrel		$61.40	$77.10	$88.65	$110.95	$120.70	$131.25
Gaskets	(2)	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.
Bolts & Nuts	(8)	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.
Ext. Rod		6.15	9.45	12.70	16.00	19.30	22.65
Rod Coupling		11.40	11.40	11.40	11.40	11.40	11.40
Coupling Pins	(3)	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.
Total Per Kit		$105.55	$124.55	$139.35	$164.95	$178.00	$191.90

HYDRANT *QUIK-FIX GROUNDLINE* EXTENSION BARREL KIT

5¼" B-62-B		6"	12"	18"	24"	30"	36"
Barrel		$51.10	$69.65	$83.85	$106.50	$112.25	$122.10
Segments	(4)	6.30 ea.	6.30 ea.	6.30 ea.	6.30 ea.	6.30 ea.	6.30 ea.
Bolts & Nuts	(4)	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.
Gaskets	(2)	1.55 ea.	1.55 ea.	1.55 ea.	1.55 ea.	1.55 ea.	1.55 ea.
Ext. Rod		6.15	9.45	12.70	16.00	19.30	22.65
Rod Coupling		11.40	11.40	11.40	11.40	11.40	11.40
Coupling Pins	(3)	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.	1.60 ea.
Total Per Kit		$108.15	$130.00	$147.45	$173.40	$182.45	$195.65

All Prices F.O.B. Shipping Point.

5¼" B-62-B HYDRANT EXTENSION BARRELS

HYDRANT *BASE* EXTENSION BARREL KIT

5¼" B-62-B		6"	12"	18"	24"	30"	36"
Barrel		$61.40	$80.35	$88.65	$110.95	$120.70	$131.25
Gaskets	(2)	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.	1.90 ea.
Bolts & Nuts	(6)	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.
Total Per Kit		$78.70	$97.65	$105.95	$128.25	$138.00	$148.55

6¼" B-62-B HYDRANT EXTENSION BARRELS

HYDRANT *BASE* EXTENSION BARREL KIT

6¼" B-62-B		6"	12"	18"	24"	30"	36"
Barrel		$79.60	$101.10	$123.40	$141.60	$154.40	$168.30
Gaskets	(2)	2.45 ea.	2.45 ea.	2.45 ea.	2.45 ea.	2.45 ea.	2.45 ea.
Bolts & Nuts	(8)	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.	2.25 ea.
Total Per Kit		$102.50	$124.00	$146.30	$164.50	$177.30	$191.20

All Prices F.O.B. Shipping Point.

TRAFFIC MODEL HYDRANT REPAIR KITS

5¼" B-62-B HYDRANT TRAFFIC MODEL REPAIR KIT

1	Rod Coupling	$11.40
3	Rod Coupling Pins	1.60 ea.
1	Barrel Gasket	1.55
8	Frangible Bolts & Nuts	3.15 ea.
	Total Per Kit	$42.95

6¼" B-62-B HYDRANT TRAFFIC MODEL REPAIR KIT

1	Rod Coupling	$11.40
3	Rod Coupling Pins	1.60 ea.
1	Barrel Gasket	2.45
8	Frangible Bolts & Nuts	3.15 ea.
	Total Per Kit	$43.85

4" & 4½" B-50-B TRAFFIC MODEL REPAIR KIT

1	Rod Coupling	$8.85
3	Rod Coupling Pins	1.60 ea.
1	Barrel Gasket	1.90
8	Frangible Bolts & Nuts	3.15 ea.
	Total Per Kit	$40.75

5" B-50-B TRAFFIC MODEL REPAIR KIT

1	Rod Coupling	$11.40
3	Rod Coupling Pins	1.60 ea.
1	Barrel Gasket	2.45
8	Frangible Bolts & Nuts	3.15 ea.
	Total Per Kit	$43.85

6" B-50-B TRAFFIC MODEL REPAIR KIT

1	Rod Coupling	$11.40
3	Rod Coupling Pins	1.60 ea.
1	Barrel Gasket	3.55
12	Frangible Bolts & Nuts	3.15 ea.
	Total Per Kit	$57.55

4½" MARK-73 TRAFFIC MODEL REPAIR KIT

1	Breakable Barrel Flange	$18.45
8	Barrel Bolt & Nut	2.25 ea.
1	Barrel Gasket	1.90
1	Rod Coupling	8.85
3	Rod Coupling Pins	1.60 ea.
	Total Per Kit	$52.00

PRICE
SCHEDULE
Effective January 12, 1981

Water Systems Group
Clow Corporation

~~5159 U.S. 31 North~~ P.O. Box 86
South Bend, IN 46637 46624

219 ~~272-9574~~ 234-8911

March 13, 1981

City of Fort Wayne
Department of Purchses
Fort Wayne, Indiana

Reference: Bid No. 592 - Fire Hydrants

CLOW

Dear Sirs:

Thank you for inviting us to submit a proposal to furnish Fire Hydrants. However, the specification as written clearly exclude us from submitting a competitive bid.

We hope to bid on other products in the future.

Very truly yours,

James P. Butler
James P. Butler

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASES

Number One Main St., Ft. Wayne, Ind. 46802

INVITATION

Page 1 of 7

Ref. No. 592

Date 2-26-81

Date wanted 3-17-81

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.

*Mail all replies and correspondence, etc. to Att. of Aaron M. Gluck DEPARTMENT OF PURCHASES

Address Room 940, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department or Division Water Maintenance & Service

Address 415 East Wallace Street
Fort Wayne IN 46803

Fund Appropriation No.

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids March 17, 1981 at 11:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 3604. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
		FIRE HYDRANTS - 1981 REQUIREMENTS		
		Estimated usage for January 1, 1981 thru December 31, 1981		
		The enclosed NON-COLLUSION AFFIDAVIT must be properly executed and returned as part of your bid.		
		We require a guaranteed firm price for the period January 1, 1981 thru December 31, 1981 and delivery to our yard within 30 days notification release. This will not be a one time purchase. It is anticipated that release quantities will be 25 to 30 hydrants per release..		
		Your parts list, with discounts, must accompany your bid.		
		Written confirmation will be sent by letter to the successful bidder after, necessary Councilmanic Approval, and the hydrants are to be delivered only upon issuance of a purchase order.		
		AFFIRMATIVE ACTION: X On File _____ Attached		

Bid Bond required NO ☐ YES ☒ 5% Performance Bond NO ☒ YES ☐

See Instruction Item No. 15 on reverse side hereof.

Terms 2 % cash discount if paid within days from delivery and acceptance of goods or completion of services.
~~10th Prox., Net 30 Days~~

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications appearing and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within 10 days from receipt of order.

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

The Treasy Company
Name of Company

For [signature] Title Vice-President

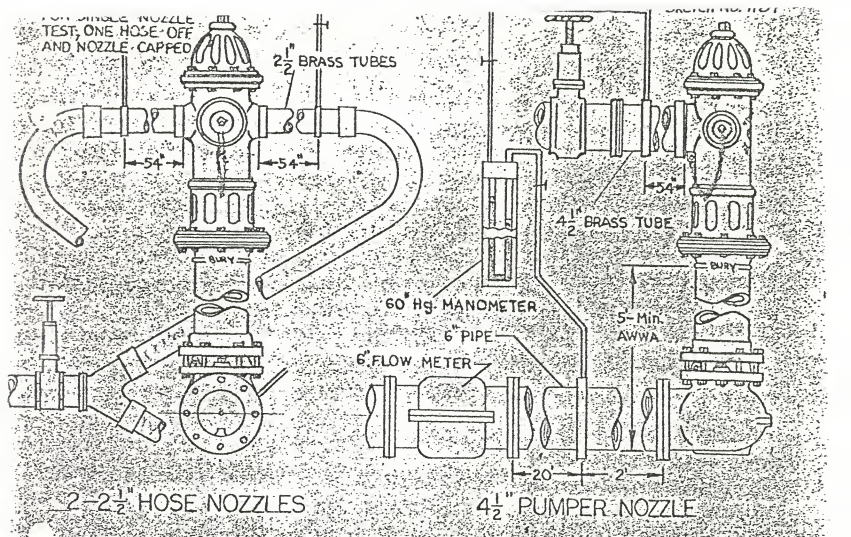
Address Box 40

City Greenville, OH 45331 Date 3/12/81

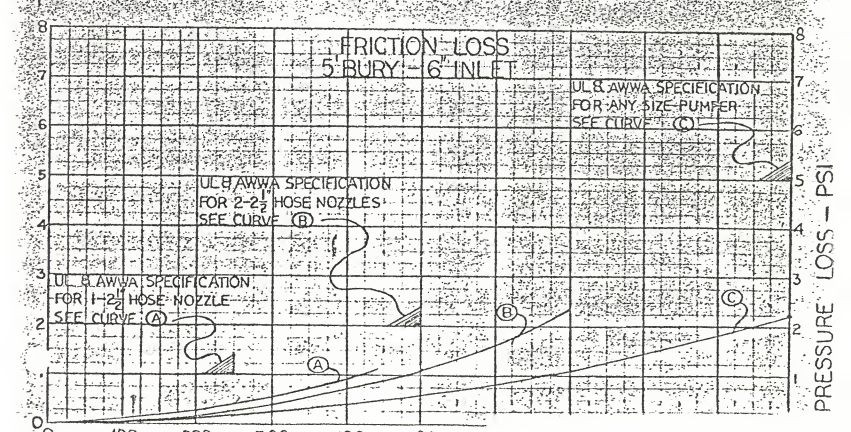
Estimated Usage - 200

Hydrant Traffic Type 5' 6" Bury	Mueller A-423	$ 456.79
Add or Deduct for each 6: variation in trench depth		$ 9.80
Percentage of discount from included parts list		$ 13%

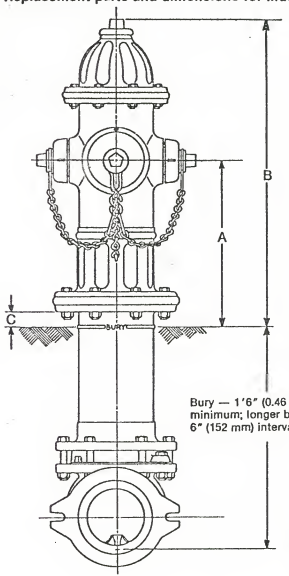
ALL HYDRANTS SHOULD BE 5 1/2 ft. BURY E/D 150 MJ INLET W/GASKETS, BOLTS, AND GLANDS - OPEN LEFT.

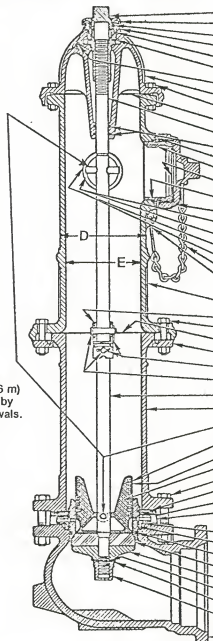


5¼" A-423 MUELLER CENTURION® FIRE HYDRANT



Replacement parts and dimensions for Mueller Centurion® Fire Hydrants





A-1. Operating Nut
A-2. Weather Cap
A-3. Hold Down Nut O-Ring
A-4. Hold Down Nut
A-5. Bonnet O-Ring
A-6. Anti-Friction Washer
A-7. Oil Filler Plug
A-8. Bonnet
A-9. Bonnet Bolt & Nut
A-10. Bonnet Gasket
A-11. Upper Stem
A-12. Stem O-Rings
A-13. Nozzle Lock
A-14. Pumper Nozzle
A-15. Pumper Nozzle Gasket
A-16. Pumper Nozzle O-Ring
A-17. Pumper Nozzle Cap
A-18. Hose Nozzle
A-19. Hose Nozzle Gasket
A-20. Hose Nozzle O-Ring
A-21. Hose Nozzle Lock (Not Shown)
A-22. Chain
A-23. Chain Connector Ring
A-24. Upper Barrel
A-25. Safety Stem Coupling
A-26. Safety Flange Bolt & Nut
A-27. Safety Flange Gasket
A-28. Safety Flange
A-29. Cotter Pins
A-30. Clevis Pins
A-31. Lower Stem
A-32. Lower Barrel
A-33. Stem Pin
A-34. Drain Valve Facing
A-35. Drain Valve Facing Screw
A-36. Upper Valve Plate
A-37. Shoe Bolt & Nut
A-38. Drain Ring Housing Gasket
A-39. Top Seat Ring O-Ring
A-40. Drain Ring Housing
A-41. Drain Bolt & Nut (Not Shown)
A-42. Drain Ring
A-43. Seat Ring
A-44. Bottom Seat Ring O-Ring
A-45. Main Valve
A-46. Lower Valve Plate
A-47. Cap Nut Seal
A-48. Lock Washer
A-49. Cap Nut
A-50. Shoe
A-51. Hydrant Lubricating Oil

Dimensions

Hydrant size	A		B		C		D		E	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
4½"	18	457	32	813	1⅝	41	6¾	171	6	152
5¼"	18	457	33¾	845	1⅝	41	7⅞	200	7	178

See page D1-6 for ordering instructions

New

CATALOG NUMBER	SIZE	TRADE PRICE	C PC	D
A-1	4 1/2"- 5 1/4"	$45.50	71	0
A-2	4 1/2"- 5 1/4"	6.96	71	0
A-3	4 1/2"- 5 1/4"	1.79	71	0
A-4	4 1/2"- 5 1/4"	14.45	71	0
A-5	4 1/2"- 5 1/4"	1.79	71	0
A-6	4 1/2"- 5 1/4"	.54	71	0
A-7	4 1/2"- 5 1/4"	.93	71	0
A-8	4 1/2"- 5 1/4"	71.92	71	0
A-9	4 1/2"	1.33	71	0
A-9	5 1/4"	1.79	71	0
A-10	4 1/2"- 5 1/4"	3.83	71	0
A-11	4 1/2"	40.31	71	0
A-11	5 1/4"	42.13	71	0
A-12	4 1/2"- 5 1/4"	1.79	71	0
A-13	4 1/2"- 5 1/4"	.18	71	0
A-14	4 1/2"- 5 1/4"	52.80	71	0
A-15	4 1/2"- 5 1/4"	2.95	71	0
A-16	4 1/2"- 5 1/4"	1.79	71	0
A-17	4 1/2"- 5 1/4"	39.83	71	0
A-18	4 1/2"- 5 1/4"	16.43	71	0
A-19	4 1/2"- 5 1/4"	.97	71	0
A-20	4 1/2"- 5 1/4"	.91	71	0
A-21	4 1/2"- 5 1/4"	16.97	71	0
A-22	4 1/2"- 5 1/4"	2.42	71	0
A-23	4 1/2"- 5 1/4"	.36	71	0
A-24	4 1/2"	167.89	71	0
A-24	5 1/4"	222.35	71	0
A-25	4 1/2"- 5 1/4"	15.60	71	0
A-26	4 1/2"	1.33	71	0
A-26	5 1/4"	1.79	71	0
A-27	4 1/2"- 5 1/4	3.83	71	0
A-28	4 1/2	17.41	71	0
A-28	5 1/4	19.13	71	0
A-29	4 1/2 - 5 1/4	.39	71	0
A-30	4 1/2 - 5 1/4	2.45	71	0
A-31	4 1/2 OR 5 1/4 - 1'-6"	18.67	71	0
A-31	4 1/2 OR 5 1/4 - 2'-0"	21.09	71	0
A-31	4 1/2 OR 5 1/4 - 2'-6"	23.51	71	0
A-31	4 1/2 OR 5 1/4 - 3'-0"	25.93	71	0
A-31	4 1/2 OR 5 1/4 - 3'-6"	28.35	71	0
A-31	4 1/2 OR 5 1/4 - 4'-0"	30.77	71	0
A-31	4 1/2 OR 5 1/4 - 4'-6"	33.19	71	0
A-31	4 1/2 OR 5 1/4 - 5'-0"	35.61	71	0
A-31	4 1/2 OR 5 1/4 - 5'-6"	38.03	71	0
A-31	4 1/2 OR 5 1/4 - 6'-0"	40.45	71	0
A-31	4 1/2 OR 5 1/4 - 6'-6"	42.87	71	0
A-31	4 1/2 OR 5 1/4 - 7'-0"	45.28	71	0
A-32	4 1/2" - 1'-6"	120.05	71	0
A-32	4 1/2" - 2'-0"	138.30	71	0
A-32	4 1/2" - 2'-6"	156.56	71	0
A-32	4 1/2" - 3'-0"	174.81	71	0
A-32	4 1/2" - 3'-6"	193.06	71	0
A-32	4 1/2" - 4'-0"	211.31	71	0
A-32	4 1/2" - 4'-6"	229.56	71	0
A-32	4 1/2" - 5'-0"	247.82	71	0
A-32	4 1/2" - 5'-6"	266.07	71	0
A-32	4 1/2" - 6'-0"	284.32	71	0
A-32	4 1/2" - 6'-6"	302.57	71	0
A-32	4 1/2" - 7'-0"	320.82	71	0
A-32	5 1/4" - 1'-6"	95.74	71	0
A-32	5 1/4" - 2'-0"	122.93	71	0
A-32	5 1/4" - 2'-6"	150.11	71	0
A-32	5 1/4" - 3'-0"	177.29	71	0
A-32	5 1/4" - 3'-6"	204.48	71	0
A-32	5 1/4" - 4'-0"	231.66	71	0
A-32	5 1/4" - 4'-6"	258.84	71	0
A-32	5 1/4" - 5'-0"	286.03	71	0
A-32	5 1/4" - 5'-6"	313.21	71	0
A-32	5 1/4" - 6'-0"	340.39	71	0
A-32	5 1/4" - 6'-6"	367.58	71	0
A-32	5 1/4" - 7'-0"	394.76	71	0
A-33	4 1/2" - 5 1/4"	2.72	71	0
A-34	4 1/2" - 5 1/4"	.91	71	0
A-35	4 1/2" - 5 1/4"	.39	71	0
A-36	4 1/2"	42.53	71	0

CATALOG NUMBER	SIZE	TRADE PRICE	C PC	D
A-36	5 1/4"	$45.85	71	0
A-37	4 1/2" - 5 1/4"	1.79	71	0
A-38	4 1/2" - 5 1/4"	4.19	71	0
A-39	4 1/2" - 5 1/4"	1.79	71	0
A-40	4 1/2" - 5 1/4"	9.03	71	0
A-41	4 1/2" - 5 1/4"	1.34	71	0
A-42	4 1/2"	19.82	71	0
A-42	5 1/4"	21.61	71	0
A-43	4 1/2"	50.16	71	0
A-43	5 1/4"	65.27	71	0
A-44	4 1/2" - 5 1/4"	1.79	71	0
A-45	4 1/2"	29.40	71	0
A-45	5 1/4"	35.61	71	0
A-46	4 1/2"	5.13	71	0
A-46	5 1/4"	5.98	71	0
A-47	4 1/2" - 5 1/4"	.36	71	0
A-48	4 1/2" - 5 1/4"	.93	71	0
A-49	4 1/2" - 5 1/4"	4.05	71	0
A-50	4 1/2"	164.12	71	0
A-50	5 1/4"	195.90	71	0
A-51	8 OZ.	4.64	71	0
A-51	GALLON	11.82	71	0
A-52	5 1/4"	45.50	71	0
A-53	5 1/4"	17.86	71	0
A-54	5 1/4"	21.62	71	0
A-55	5 1/4"	67.59	71	0
A-56	5 1/4"	.83	71	0
A-57	5 1/4"	3.49	71	0
A-58	5 1/4"	34.17	71	0
A-59	5 1/4"	246.67	71	0
A-300		57.41	71	0
A-301		57.41	71	0
A-311		8.25	71	0
A-316	2 1/2"	28.03	71	0
A-316	3"	28.03	71	0
A-316	4"	30.43	71	0
A-316	4 1/2"	30.43	71	0
A-316	5"	99.24	71	0
A-316	JONES CPLG.	73.20	71	0
A-317		26.42	71	0
A-319	6"	116.72	71	0
A-319	1'-0"	137.40	71	0
A-319	1'-6"	146.22	71	0
A-319	2'-0"	162.43	71	0
A-319	2'-6"	271.35	71	0
A-319	3'-0"	291.57	71	0
A-319	3'-6"	294.08	71	0
A-319	4'-0"	309.84	71	0
A-319	4'-6"	335.61	71	0
A-319	5'-0"	342.89	71	0
A-320	0'-6"	130.36	71	0
A-320	1'-0"	152.68	71	0
A-320	1'-6"	173.70	71	0
A-320	2'-0"	188.94	71	0
A-320	2'-6"	278.90	71	0
A-320	3'-0"	299.26	71	0
A-320	3'-6"	311.73	71	0
A-320	4'-0"	371.42	71	0
A-320	4'-6"	400.14	71	0
A-320	5'-0"	407.49	71	0
A-359		160.02	71	0
A-367		10.32	71	0

NOTE: CONTACT OUR SALES REPRESENTATIVE OR NEAREST SALES OFFICE FOR ITEMS NOT

EFFECTIVE DECEMBER 15, 1980

FORM 0P25 5-68

CITY OF FORT WAYNE
DEPARTMENT OF PURCHASES
Number One Main St., Ft. Wayne, Ind. 46802

INVITATION

Page 1 of 7

Ref. No. 592

Date 2-26-81

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.*

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Date wanted 3-17-81

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Department or Division Water Maintenance & Service

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Fort Wayne IN 46803

Fund Appropriation No.

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TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
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		Written confirmation will be sent by letter to the successful bidder after, necessary Councilmanic Approval, and the hydrants are to be delivered only upon issuance of a purchase order.		
		AFFIRMATIVE ACTION: ____ On File yes Attached		

Bid Bond required NO ☐ YES ☒ 5% Performance Bond NO ☒ YES ☐ 5% Cashier's Check

Terms NET 30 DAYS % cash discount if paid within days from delivery and acceptance of goods or completion of services.

See Instruction Item No. 15 on reverse side hereof.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications appearing and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within days from receipt of order.

IMPORTANT ☞ As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here: Waterous Company
Name of Company

For J. R. Blan Mgr., AWWA Product

J. R. Blan

Address 300 John E. Carroll Avenue East

City South St. Paul MN 55075 Date 3-13-81

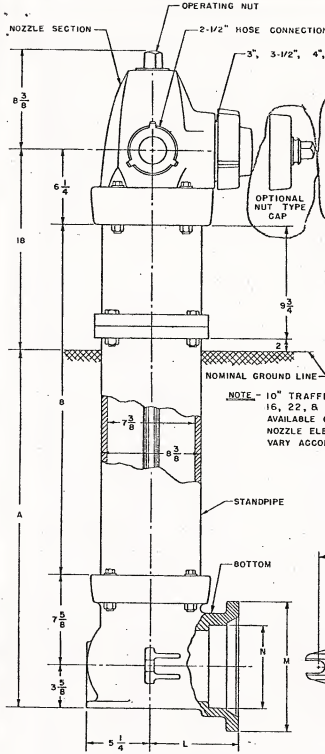
Estimated Usage - 200

Hydrant Traffic Type 5' 6" Bury	$ 424.00 Each
Add or Deduct for each 6: variation in trench depth	$ 9.00 Each
Percentage of discount from included parts list	$ Net

Parts Price sheet Form H-266-13, Attached.

ALL HYDRANTS SHOULD BE 5 1/2 ft. BURY E/D 150 MJ INLET W/GASKETS, BOLTS, AND GLANDS - OPEN LEFT.

Above hydrants to have the oil sealed reservoir, bronze seat ring and weather shield nut as shown on attached print H-272-3 Page 2 of 2.



NOTE - 10" TRAFFIC SECTION IS STANDARD
16, 22, & 28 TRAFFIC SECTIONS ARE
AVAILABLE ON SPECIAL ORDER.
NOZZLE ELEVATION WILL
VARY ACCORDINGLY.

BURY *	A	B
1'-6"	1'-6 3/4"	1'-7 1/4"
2'-0"	2'-0 3/4"	2'-1 1/4"
2'-6"	2'-6 3/4"	2'-7 1/4"
3'-0"	3'-0 3/4"	3'-1 1/4"
3'-6"	3'-6 3/4"	3'-7 1/4"
4'-0"	4'-0 3/4"	4'-1 1/4"
4'-6"	4'-6 3/4"	4'-7 1/4"
5'-0"	5'-0 3/4"	5'-1 1/4"
5'-6"	5'-6 3/4"	5'-7 1/4"
6'-0"	6'-0 3/4"	6'-1 1/4"
6'-6"	6'-6 3/4"	6'-7 1/4"
7'-0"	7'-0 3/4"	7'-1 1/4"
7'-6"	7'-6 3/4"	7'-7 1/4"
8'-0"	8'-0 3/4"	8'-1 1/4"
8'-6"	8'-6 3/4"	8'-7 1/4"
9'-0"	9'-0 3/4"	9'-1 1/4"
9'-6"	9'-6 3/4"	9'-7 1/4"

* "BURY" IS THE NOMINAL DISTANCE FROM GROUND LINE TO BOTTOM OF CONNECTING PIPE

NOTE - PACER HYDRANT AVAILABLE WITH 5-1/4" VALVE OPENING ONLY.

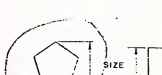
Class "B"

CONNECTING PIPE	L	M	N	R	NO. HOLES	HOLE SIZE
6" PIPE	7-3/4	11-1/16	7	9-1/2	6	7/8

For mechanical joint pipe

NOTE - OPERATING NUT FURNISHED L.H. (COUNTER CLOCKWISE OPENING) OR R.H. (CLOCKWISE OPENING) IN FOLLOWING COMMON SIZES:

15/16	PENTAGON	7/8	SQUARE
1 1/8	"	1	"
1 7/32	"		
1 5/16	"		
1 1/2	"		



DIMENSION AND SPECIFICATION SHEET
PACER TRAFFIC FLANGE HYDRANT
WITH MECHANICAL JOINT CONNECTION
REV. 5-79

PLATE 68-2-6-6

WATEROUS COMPANY
SOUTH ST. PAUL, MINNESOTA 55075

December, 1980

SUMMARY - WATEROUS COMPANY PRESENT EMPLOYMENT

POSITION	M	F	Total	Minority	% Females to Total	% Minorities to Total
Officials & Managers	21	1	22	-	4.5	-
Professionals	9	3	12	-	25.0	-
Technicians	5	2	7	-	28.5	-
Sales	22	4	26	-	18.1	-
Office & Clerical	5	17	22	2	77.2	9.0
Craftsman - Skilled	83	-	83	2	-	2.4
Operatives - Semi-Skilled	59	-	59	5	-	8.5
Unskilled Laborers	31	3	34	1 (F)	8.8	2.9
Janitors	3	-	3	-	-	-
TOTAL	238	30	268	10	11.2	3.7

COMMENTS:

Total employment for Waterous has dropped by 30 people. This occurred through a layoff in December, 1979, of bargaining unit employees, and in November, 1980, and January 15, 1981. Also a layoff occurred in May, 1980, of salaried employees thereby reducing the overall employees of the Company. The layoff of bargaining unit employees is scheduled according to seniority which included decreasing females and minorities.

A promotion occurred in the Sales Category from a lower classification in the clerical field, with a female also being promoted to a higher grade level due to increased responsibilities.

Our total employment has decreased from data gathered in 1979, and it appears that with new and improved production procedures, new machinery, re-arrangement and promotion of shop employees, no job openings are imminent.

TEST RECORD NO. 1

SAMPLES:

One sample each of the following base valve hydrants was used in this investigation: 5 in. hydrant with two 2-1/2-in. hose and one 4-1/2-in. pumper outlet; 5 in. size with two 2-1/2-in. hose and one 4-in. pumper outlet; 5 in. size with three 2-1/2-in. hose outlets.

EXAMINATION OF DEVICE:

METHOD

The sample hydrants were compared with the manufacturer's drawings and with the applicable sections of the Laboratories' Standard for Hydrants for Fire Protection Service, UL246.

RESULTS

The samples were found to be in compliance with the manufacturer's drawings and with the applicable specifications of the Laboratories' Standard.

OPERATING TESTS:

METHOD

A sample hydrant with two 2-1/2-in. hose outlets and one 4-in. pumper outlet was installed on a test piping system, and operated a number of times to determine the ease with which the hydrant could be opened and closed at service pressures up to 150 psi. The number of turns necessary to move the main valve of the hydrant from its closed to its wide-open position and the number of turns necessary to cause closure of the hydrant drain valve when opening the hydrant main valve were determined.

RESULTS

The subject hydrant can be opened and closed at the various service pressures up to 150 psi without difficulty.

The sample hydrant required 20-1/2 turns to be fully opened and closed. The drain valve of this particular hydrant is fully closed after approximately 2-1/2 turns of the main valve stem.

LOSS OF HEAD (FRICTION LOSS)

Graph I

Simultaneous Equal Flow Through Three 2-1/2-In. Hose Outlets

Total Flow, GPM	Head Loss, PSI		
	Outlet No. 1	Outlet No. 2	Outlet No. 3
500	0.75	1.05	1.21
600	1.16	1.45	1.61
700	1.45	1.82	1.96
810	1.95	2.45	2.51
890	2.35	2.89	2.91

Graph II

Flow Through 4-In. Pumper Outlet

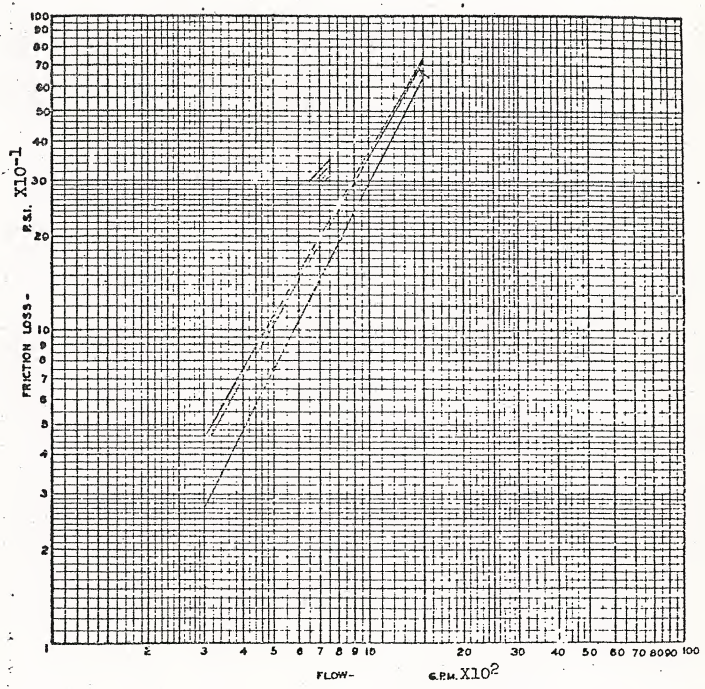
Flow, GPM	Head Loss, PSI
1100	4.19
1000	3.64
900	2.64
800	2.08
700	1.64
600	1.69

Graph III

Flow Through 4-1/2-In. Pumper Outlet

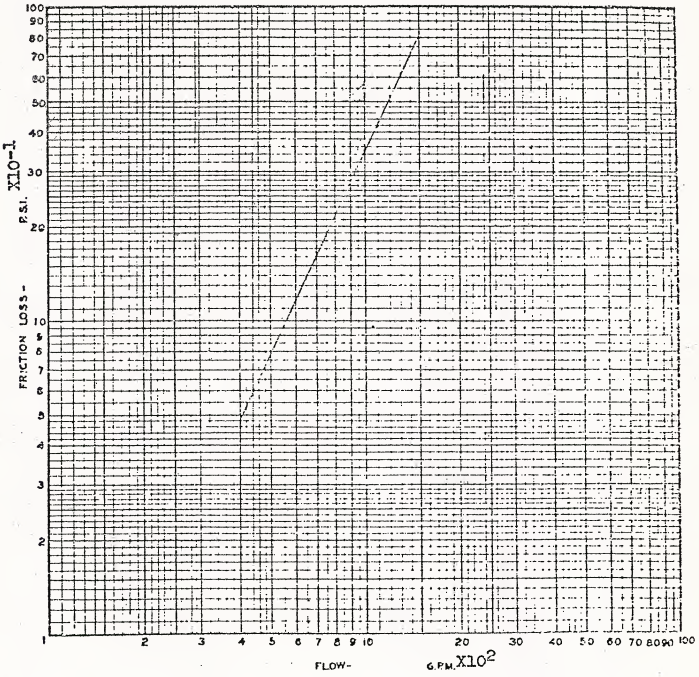
Flow, GPM	Head Loss, PSI
1100	4.70
1000	3.90
900	3.04
800	2.26
700	1.78
600	1.32

FRICTION LOSS
Three 2-1/2 In. Hose Outlets



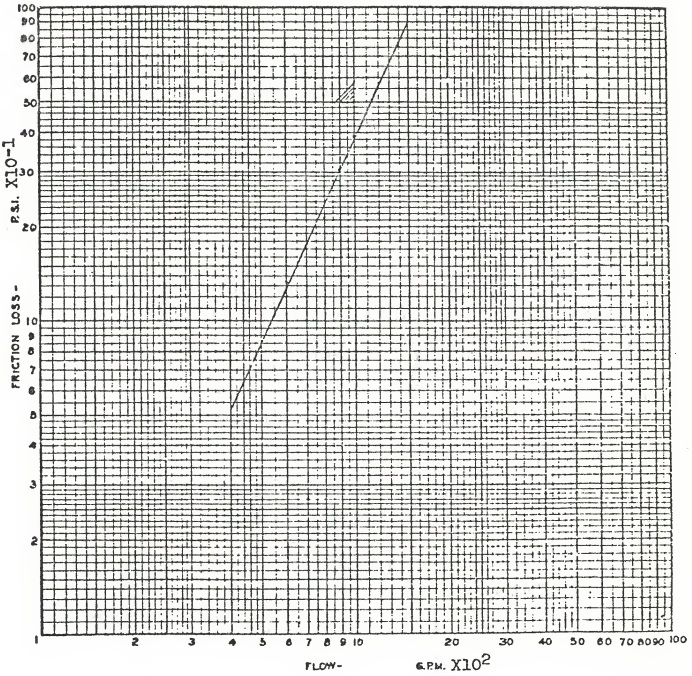
Graph I

FRICTION LOSS
4 In. Pumper Outlet



Graph II

FRICTION LOSS
4-1/2 In. Pumper Outlet



Graph III

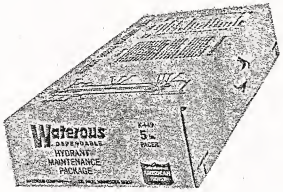
WATEROUS COMPANY
South St. Paul, Minnesota 55075

FORM NO. H-259-10
February, 1981

B.d 592.

WATEROUS HYDRANT MAINTENANCE KITS --

--Make hydrant repair easier, faster, and more organized.



Fire hydrants "out of service" for lack of repair parts are potential danger spots in your community. Regular maintenance programs can bog down too, if you must go back to the shop for parts. The Waterous Hydrant Maintenance Kit is designed to make your job easier and quicker, and to preserve parts in good condition.

There is a Kit for each different type hydrant you may have in your system. Each Kit contains enough gaskets, valves, O-rings, bolts, nuts, etc., -- plus special Waterous oil and grease -- for maintenance work on several hydrants. Besides having all these necessary parts conveniently contained -- and ready-to-go -- in one box with handy carrying handle, the cover of each box is imprinted with a sectional drawing of the hydrant, general instructions, and a parts list.

Kit Number	Description	Price
K-447	Contains enough parts to service 6 to 10 W-31 or W-59 4-inch Waterous hydrants.	$ 79.00
K-448	Contains enough parts to service 4 to 8 W-31 or W-59 5-inch Waterous hydrants.	79.00
K-449	PACER hydrant maintenance parts to service 5 to 8 hydrants.	79.00
K-481	TREND hydrant maintenance parts to service 4 to 8 hydrants.	79.00

For most hydrant repair and regular maintenance jobs, all you have to do is pick up your tools and a Waterous Hydrant Maintenance Kit. You'll spend a lot less time getting the job done with everything organized and at hand than if you have to hunt or wait for parts.

Order yours today. Only $79.00 for any one of these four kits. All prices are F.O.B. Factory, South St. Paul, Minnesota, and are subject to change without notice.

Freight Prepaid To Ft Wayne Ind.

amhoist
AMERICAN HOIST & DERRICK CO

WATEROUS HYDRANT ENAMEL

Fire hydrants should be well protected with a paint that will stay bright and glossy for a long time. WATEROUS HYDRANT ENAMEL is especially formulated to stay "new" looking even under severe weather conditions and rough usage. It is a tight-bonding paint, designed for application with a brush right from the can. Thinning is required for spray application. Complete instructions are on each can.

WATEROUS HYDRANT ENAMEL is made from the finest quality bases and pigments available. Thorough testing of the enamels has developed formulations permitting yellow and orange colors that retard streaking; white that stays white and glossy; red and green that stay bright. The colors were selected for hydrant use and the formulas developed for that specific purpose. Color chips are available on request.

We encourage you to order in increments of four (4) gallons. If large quantities of paint are required, we will be pleased to quote on five-gallon pails or drums, at reduced prices.

WATEROUS HYDRANT ENAMEL is ideal for other surfaces too, wherever a bright and glossy durable finish is desired or where severe weathering is a problem.

LIST PRICES

Number	Color	Price (gal.)
V1813	Grey Prime Coat	$ 16.00
V1814A	Aluminum	22.00
V1814B	Glossy Black	18.00
V1814G	Waterworks Green	19.00
V1814N	National Blue	19.00
V1814R	Brilliant Red	14.00
V1814SG	Sea Green	19.00
V1814T	Bright Orange	21.00
V1814W	Shining White	10.00
V1814Y	Bright Yellow	14.00
V1814L	Lime Yellow	14.00

Codit® BRAND REFLECTIVE LIQUID

NO LONGER AVAILABLE

All prices are F.O.B. South St. Paul, Minnesota, and are subject to change without notice.

WATEROUS COMPANY
South St. Paul, MN 55075

FORM NO. H-266-13
(Cancels H-266-12)
Effective 2-1-81

WATEROUS FIRE HYDRANTS
PACER TYPE
Model W-67, WB-67

PARTS PRICE LIST Bid 592

Prices are F.O.B., South St. Paul, Minnesota
(Minimum Billing Any One Order – $30.00)
FREIGHT PREPAID TO FT WAYNE, IND.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
3.	5214	Packing, valve seat, upper and lower O-Rings	$ 1.80
5.	50673	Gasket, flange, lower standpipe	1.10
6.	51480	Bolt, hex head, lower standpipe (4 required) 5/8-11 X 3 in., w/nut W2010 SP	1.10
6A.	51484	Bolt, hex head, upper standpipe (4 required) 5/8-11 X 3-3/4 in., w/nut W2010 SP	1.10
6B.	W1010-48HTSP	Bolt, hex head, breakoff section (4 required), w/nut W2010CA	1.10
6C.	W0210 SP	Nut, hex	.25
6D.	W1010-52CA	Bolt, hex head, top ext. (4 required) 5/8-11X3-½ in., w/nut W2010CA	1.10
7.	51469	Plunger, drain	4.80
8.	W3508-24SS	Pin, cotter, SS ⅛ X 1-½ in.	.30
9.	51482	Chain, nozzle cap, single	2.00
9A.	51483	Chain, nozzle cap, double	4.20
10.	(1)	Cap, nozzle, nut type, 2-½ in., w/gasket	15.00
10A.	(1)	Cap, nozzle, rocker-lug type, 2-½ in., w/gasket	15.00
10C.	(1)	Cap, pumper nozzle, nut type w/gasket	26.00
10D.	(1)	Cap, pumper nozzle, rocker-lug type w/gasket	26.00
		NOTE: FOR VENTED CAPS – ADD $5.00 EACH	
11.	5204-1	Gasket, cap, rubber, 2-½ in.	.45
11A.	5204-2	Gasket, cap, leather, 2-½ in.	2.90
11B.	(2)	Casket, pumper cap, rubber	1.40
11C.	(2)	Casket, pumper cap, leather	6.00
12.	(2)	Nozzle, hose, 2-½ in.	17.50
12A.	(3)	Nozzle, pumper 3 to 5 in.	50.00
16.	W9125-8B	Screw, oil hole – operating nut	.35
17A.	51470-L,-R(4)	Nut, operating, lower, LH or RH	10.50
17B.	61906-(N) (5)	Nut, operating, upper – since 1970	12.50
17C.	61906-(N)BZ (5)	Nut, operating, upper – since 1970	24.00
	V1954	(always supply with ring No. 90)	1.00
25.	51124	Bushing, valve rod	2.60
28.	62271-L,-R(4)	Rod ass'y valve rod, w/bushing, W-67, through 9'0" bury	49.00
	62272-L,-R(4)	Rod ass'y valve rod, w/bushing, W-67, over 9'0" bury (See sub-ass'y L, K-502)	55.00
29.	62382-76	Standpipe, pipe only, 7'6" bury, W-67	213.00
		Add or deduct for each 6 in. variation	13.00
29A.	62383-76	Standpipe, pipe only, 7'6" bury, WB-67	198.00
		Add or deduct for each 6 in. variation	13.00

NOTES: (1) Part number varies with thread and, where applicable, nut type.
(2) Part number varies with cap size.
(3) Part number varies with thread size.
(4) (-L) is OPEN LEFT HYDRANT, (-R) is OPEN RIGHT HYDRANT.
(5) Replace (n) with number corresponding to correct nut size.

All prices subject to change without notice.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
30.	61735	Cross Arm	$ 8.80
31.	71530	Seat, valve w/upper and lower O-Ring pakcing (#3)	59.00
34.	61733	Valve washer, upper	3.30
35.	61920	Main valve, rubber	4.10
35A.	61970	Main valve, leather	30.00
35B.	62023	Main valve, rubber "hard"	27.50
36.	61919	Valve washer, lower	11.50
37.	71509	Bottom, mechanical joint, 4 in.	144.00
	71310	" " " , 6 in.	145.00
	71574	" flanged, 4 in.	140.00
	71394	" " , 6 in.	145.00
	71397	" ring-tite, 6 in.	154.00
	71395	" tyton, 6 in.	259.00
	71396	" hub, 6 in.	146.00
	71719	" mechanical joint, 8 in.	156.00
	80767	" T Base, flanged, 6 in.	175.00
38.	5320-N(5)	Wrench, operating nut and hose spanner	9.00
40.	62388	Standpipe, upper (10 in. long)	43.00
	62388-16	" " (16 in. long)	56.00
	62388-22	" " (22 in. long)	69.00
	62388-28	" " (28 in. long)	82.00
		Indicate color - for hydrants manufactured before June 1980, See Kit "P" (K-525)	
45.	62397	Extension, top standpipe, pipe only	
		6 in. min. length for WB-67	35.00
		12 in. min. length for W-67	48.00
		Add for each 6 in. additional length	13.00
46.	71434	Extension, bottom standpipe	306.00
		12 in. min. length (see sub-ass'y S, K-444)	
47.	W30204	Gland, mechanical joint, 4 in. pipe	10.50
	50546	4 in. Class B	19.00
47A.	W30206	Gland, mechanical joint, 6 in. pipe	11.00
	50547	6 in. Class B pipe	23.00
48.	W30035	T-Bolt, mechanical joint, 4 & 6 in., w/nut W30375	2.00
49.	W30104-L	Gasket, mechanical joint, 4 in., lead tipped	4.60
	W30106-L	6 in. lead tipped	5.90
49A.	W30104-R	Gasket, mechanical joint, 4 in., rubber	3.50
	W30106-R	6 in. rubber	4.40
50.	5787	Gasket, flanged joint, 6 in.	2.60
51.	W1012-44CA	Bolt, flanged connection, 6 in., w/nut W2012CA	1.10
54.	51067	Bushing, drain	.65
56.	71313	Support	33.50
56A.	71728	Support (oil reservoir-Omaha type)	34.50
56B.	71611	Support (oil reservoir-Memphis type)	42.00

(1) Part number varies with thread and, where applicable, nut type.
(2) Part number varies with cap size.
(3) Part number varies with thread size.
(4) (-L) is OPEN LEFT HYDRANT, (-R) is OPEN RIGHT HYDRANT.
(5) Replace (N) with number corresponding to correct nut size.

All prices subject to change without notice.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
57.	W3724-4	Packing, O-Ring - operating nut (1 required)	$ .45
59.	W3718-4	Packing, O-Ring support (2 required)	.35
60.	80684-L,-R(4)	Nozzle section, only, DD - LH or RH	78.00
	80571-L,-R(4)	Nozzle section, only, DDP - LH or RH	86.00
	80709-L,-R(4)	Nozzle section, only, PP - LH or RH	139.00
	80728-L,-R(4)	Nozzle section, only, DDD - LH or RH	88.00
61.	61741-()	Plate, bury depth, w/washers - Indicate length or hydrant	.65
62.	61726	Clamp, lock ring	1.70
63.	61724	Flange, lower	15.00
64.	50676	Ring, flange lock	2.80
67.	62266	Sleeve, coupling, Cast Iron (2 halves = 1 set)(See Kit A)	8.80
67A.	51645	Sleeve, coupling, Bronze (2 halves = 1 set)	25.50
67B.	51472	Sleeve, coupling, Aluminum (2 halves = 1 set)	6.50
71.	61737-L,-R(4)	Rod only, breakoff, upper w/bushing - LH or RH (indicate length)	22.00
72.	62273-()	Rod, lower, WB-67, through 9'0" bury	35.00
	62274-()	Rod, lower, WB-67, over 9'0" bury Indicate length of hydrant	42.00
74.	K-431	Extension assembly, valve rod, WB-67, (6" minimum) (See Assy. B, K-431)	23.00
75.	K-432-L,-R(4)	Extension assembly, valve rod, W-67, (12" minimum) (See Assy. C, K-432)	30.00
76.	W23038-5	Setscrew, rod extension	.35
78.	(6)	Lightweight valve seat removal wrench (Indicate length of wrench desired)	143.00
80.	51475	Washer, thrust, Teflon (used before 1970 - see no. 90)	1.80
81.	W10103-7C	Pin, groove, type 2, Beryllium copper, 3/32 x 7/16 in.	.45
82.	W3738-4	Seal, tube, upper (O-Ring)	.65
83.	W3730-4	Seal, tube, lower (O-Ring)	.55
84.	51479	Gasket, support (2 required)	.65
85.	61725	Tube, support	14.00
85A.	62197	Tube, support (oil reservoir-Omaha type)	45.00
86.	W2416-CA	Nut, stop - Open left hydrant	.65
	W2416-LCA	Nut, stop - Open right hydrant	.65
87.	V1853	Nut, coupling, Bronze (4 required)	.75
87A.	V2016	Nut, coupling, Stainless Steel (4 required)	1.00
88.	51481	Stud, coupling (2 required)	1.40
88A.	51481SS	Stud, coupling Stainless Steel (2 required)	2.50
89.	51471	Bushing, Nylon	1.70
90.	V1954	Ring, thrust, Teflon (used since 1970) (see #17C)	1.00
91.	W6504B	Plug, sq hd pipe, brass, 1/4 in. (U.L. press. tap)	3.50
92.	51584	Gasket, breakoff flanged (lipped)	1.80
93.	51611	Plate, identification (U.L.)	3.00
94.	W9006-4	Screw, rd hd drive, No. 6 x 1/4 in. (2 required)	.30
98.	W37104-4	Packing, O-Ring (Bronze to Bronze valve seat)	2.50
99.	W6604B	Plug, oil level (oil reservoir)	.95
113.	61724-1	Flange, breakable	15.00

(1) Part number varies with thread and, where applicable, nut type.
(2) Part number varies with cap size.
(3) Part number varies with thread size.
(4) (-L) is OPEN LEFT HYDRANT, (-R) is OPEN RIGHT HYDRANT.
(5) Replace (N) with number corresponding to correct nut size.
(6) Part number varies with length of hydrant.

All prices are subject to change without notice.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
	61423-1	2-½ in. cap (NST thread), tapped, 1-¾ in. NPT	$ 37.50
	61423-2	2-½ in. cap (Waterous Std. threads), tapped 1-¾ in. NPT	37.50
	51193-1	Plate, instruction (no drain)	4.50
	V1739	Jabsco "Water Puppy" pump, 12 volt	121.00
	K498	Service Kit, Kabsco pump, 12 volt	12.00
	V1935	Oil, operating nut (1 pint)	1.70
	V1934	Hydrant grease (1 pound)	2.80
	V-2056R	Spray paint (touch-up) (red)	5.50
	V-2056Y	Spray paint (touch-up) (yellow)	5.50
	V-1321	Pear-shaped rings (chains)	1.50
	V-2171	Hydrant hose gate valves	115.00
97.	71542	Insert, valve seat (Prior to June 1977)	74.00
97.	71754	Insert, valve seat (After June 1977)	72.00
	51686	Sleeve, safety lock	10.00
	51530	Sleeve, coupling, non-breakable (2 halves = 1 set)	10.50
	62114	Coupling, safety break	24.00
101.	62024-(N) (5)	Extension, Weathershield nut	21.50
102.	W10108-32SS	Pin, groove, Stainless Steel, 1/4 in. x 2 in.	.75
178.	62022	Nut, operating, lower section	13.00
	W3708-6B	Bushing	1.10
	W6506-B	Plug (Always supply bushing with plug)	.95
	-	Cartons - for traffic repair and extension kits	2.20
	V1847	Handwheel - 14 in. O.D.	132.00
	W1010-48SS	Bolt, standpipe, stainless steel] per set	3.40
	W2010-SS	Nut, standpipe, stainless steel]	
	71701	Seat, Valve w/Upper & Lower O-Ring (Colorado Springs Spec.)	65.00
	62169	Valve Washer, Upper (Colorado Springs Spec.)	3.90
	62175	Main Valve, Rubber, "Hard" (Colorado Springs Spec.)	4.10

NOTES:
(1) Part number varies with thread and, where applicable, nut type.
(2) Part number varies with cap size.
(3) Part number varies with thread size.
(4) (-L) is OPEN LEFT HYDRANT, (-R) is OPEN RIGHT HYDRANT.
(5) Replace (N) with number corresponding to correct nut size.
(6) Part number varies with length of hydrant.

 All prices are subject to change without notice.

HYDRANT SUBASSEMBLIES
(Numbers in parenthese in Description Column
are quantities for each reference number)

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
A.	K-430	BREAKABLE COUPLING ASSEMBLY, IRON #67(1, #87(4), #88(2)	$ 14.50
		BREAKABLE COUPLING ASSEMBLY, BRONZE	31.50
		BREAKABLE COUPLING ASSEMBLY, ALUMINUM	12.50
B.	K-431	ROD EXTENSION ASSEMBLY (See Ref. #74) Traffic Model WB-67 Hydrant #74 (1), #108 (1), #88 (2), #87 (4) H-267 Instruction Sheet (1) 6 in. Minimum, indicate extension length.	23.00
C.	K-432-L,-R	ROD EXTENSION ASSEMBLY (See Ref. #75) Non-Traffic Model W-67 Hydrant #75 (1), #25 (1), #76 (4) H-269 Instruction Sheet (1) 12 in. Minimum, indicate extension length.	30.00
E.	K-434	TOP EXTENSION Non-Traffic Hydrant (W-67) - 12 in. length minimum* #84 (2), #92 (2), #64 (2), #63 (2), #45 (1), #61 (1), #6D (4), #6C (4) *Add for each 6 in. additional length.	83.00 13.00
E-1.	K-434/K-432	TOP & ROD EXTENSION ASSEMBLY, COMPLETE - 12 in. Non-Traffic Hydrant (W-67) (consists of C & E) 12 in. minimum* *Add for each 6 in. additional length	113.00 13.00
F.	K-434B	TOP EXTENSION Traffic Model Hydrant (WB-67) - 6 in. length minimum* #84 (2), #92 (2), #64 (2), #63 (2), #45 (1), #61 (1), #6D (4), #6C (4) *Add for each 6 in. additional length	74.00 13.00
F-1.	K-434B/K-431	TOP & ROD EXTENSION ASSEMBLY, COMPLETE 6 in. Traffic Model Hydrant (WB-67) (consists of B & F) 6 in. minimum* *Add for each 6 in. additional length	97.00 13.00
G.	K-435	GASKET KIT, TOP SECTION #82(1), #84 (2), #83 (1), #57 (1), #59 (2)	3.30
H.	K-436	KIT, UPPER VALVE ROD, WB-67 #71 (1), #67 (1) #87 (2), #86 (1), #88 (1) Indicate direction of opening and traffic section length.	33.00
I.	K-499	KIT, LOWER VALVE ROD, WB-67, Through 9'0" Bury KIT, LOWER VALVE ROD, WB-67, Over 9'0" Bury #72 (1), #8 (1), #88 (1), #87 (2) Indicate length of hydrant	41.00 47.00
J.	K-500	KIT, STANDPIPE ASSEMBLY W-67 7'6" Bury* #64 (2), #5 (1), #84 (2), #6 (4), #6A (4), #62 (8), #29 (1), #61 (1), #6C (8) *For each 6 in. variation, add or subtract	234.00 13.00
K.	K-501	KIT, STANDPIPE ASSEMBLY WB-67 7'6" Bury* #64 (2), #5 (1), #6 (4), #63 (1), #62 (4), #29A (1), #61 (1), #63 (8), #6C (8), #92 (1) *For each 6 in. variation, add or subtract	220.00 13.00

All prices subject to change without notice.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
L.	K-502	KIT, VALVE ROD ASSEMBLY, W-67, through 9'0" Bury KIT, VALVE ROD ASSEMBLY, W-67, over 9'0" Bury #28, (1), #8 (1) Indicate direction of opening and length of hydrant.	$ 48.00 54.00
M.	K-436/K-499	KIT, VALVE ROD ASSEMBLY, WB-67, through 9'0" Bury KIT, VALVE ROD ASSEMBLY, WB-67, over 9'0" Bury Includes "H" and "I" above Indicate direction of opening and length of hydrant	74.00 80.00
N.	K-503 or K-503A	KIT, INSIDE ASSEMBLY, COMPLETE, W-67, through 9'0" Bury KIT, INSIDE ASSEMBLY, COMPLETE, W-67, over 9'0" Bury Non-Traffic W-67 Hydrant #7 (1), #35 (1), #34 (1), #36 (1), #30 (1), #28 (1), #31 (1), #3 (2), #8 (1), #81 (1) Indicate direction of opening, length, and year of manufacture of hydrant.	143.00 149.00
O.	K-504 or K-504A	KIT, INSIDE ASSEMBLY, WB-67, through 9'0" Bury KIT, INSIDE ASSEMBLY, WB-67, over 9'0" Bury Traffic WB-67 Hydrant #7 (1), #67 (1), #88 (2), #35 (1), #34 (1), #36 (1), #30 (1), #71 (1), #72 (1), #31 (1), #8 (1), #3 (2), #81 (1), #87 (4) Indicate direction of opening, length, and year of manufacture of hydrant.	164.00 170.00
P.	K-525	KIT, BREAKOFF SECTION REPLACEMENT, WB-67, 10 inch* To repair hydrants with cast iron breakoff section (Manufactured prior to June 1980) #64 (1), #84 (2), #88 (1), #92 (1), #67 (1), #40 (1), #87 (2), #6B (4), #6C (4) *Add for each 6 inch additional length. Add for bronze coupling sleeve. Add for safety lock coupling sleeve (Memphis type). Indicate color.	46.00 13.00 19.00 10.00
P-1.	K-528	KIT, BREAKABLE FLANGE REPLACEMENT, WB-67 To repair hydrants with ductile iron upper standpipe (Manufactured since June 1980) #64 (1), #84 (2), #88 (1), #92 (1), #113 (1), #67 (1), #87 (2), #6B (4), #6C (4) Add for bronze coupling sleeve. Add for safety lock coupling sleeve (Memphis type). Indicate color.	37.00 19.00 10.00
Q.	K-450	KIT, TOP ASSEMBLY, COMPLETE DDP, W-67, WB-67 #17A (1), #82 (1), #80 (1), #90 (1), #84 (1), #9 (1), #9A (1) optional, #83 (1), #17B (1), #85 (1), #56 (1), #86 (1), #59 (2), #57 (1), #16 (1), #60 (1) Including #12 (2), #12A (1), #10 (2), #10C (1) Indicate color, direction of opening, and thread spec.	277.00
Q-1.	K-453	KIT, TOP ASSEMBLY, COMPLETE, DD, W-67, WB-67 Includes "Q" above less pumper nozzle, cap, gasket and chain Indicate color, direction of opening, and thread spec.	220.00
R.	K-449	HYDRANT MAINTENANCE KIT #11B (10), #11 (20), #92 (4), #80 (5), #82 (5), #84 (10), #6A (10), #83 (5), #6B (10), #8 (5), #59 (5), #3 (10), #90 (5) 1 pound hydrant grease, 1 pint oil	79.00

All price subject to change without notice.

REF. NO.	PART NUMBER	DESCRIPTION OF PARTS	UNIT PRICE
S.	K-444	KIT, BOTTOM EXTENSION - 12 inch* #5 (2), #46 (1), #64 (2), #54 (2), #63 (2), #6 (8) Plugs (2), Bushings (2) *Add for each 6 inch additonal length	$ 403.00 13.00
T.	80694	PACER MODERNIZATION KIT, ASSEMBLY (W-67) For older 5 inch V.O. Waterous Hydrant Model W-22, W-31, W-59, includes entire inside and top assemblies as described in Brochure H-273. Traffic Type, ASSEMBLY (WB-67)	429.00 518.00
U.	K-535	KIT, TOP ASSEMBLY, DDP, WB-67 HYDRANT with 10 inch upper standpipe and upper rod* #5 (2), #17A (1), #67 (1), #82 (1), #84 (2), #88 (1), #9 (1), #9A (1), #6A (4), #83 (1), #92 (1), #85 (1), #40 (1), #71 (1), #17B (1), #56 (1), #60 (1), #87 (2), #61 (1), #90 (1), #6B (4), #6C (8), #86 (1), #59 (1), #57 (1), #10 (2), #10C (1), #12 (2), #12A (1), #113 (1) Indicate color, direction of opening, and thread spec. *Add for each 6 inch additional length.	381.00 13.00
U-1.	K-535	KIT, TOP ASSEMBLY, DD, WB-67 HYDRANT with 10 inch upper standpipe and upper rod* Includes "U" above less pumper nozzle, cap, gasket and chain. Indicate color, direction of opening and thread spec. *Add for each 6 inch additional length	325.00 13.00
U-2.	K-535	KIT, TOP ASSEMBLY, PP, WB-67 HYDRANT with 10 inch upper standpipe and upper rod* Includes "U" above less both hose nozzles, caps, gaskets, and chains; plus one (1) pumper nozzle, cap, gasket and chain. Indicate color, direction of opening and thread spec. *Add for each 6 inch additional length	443.00 13.00
V.	K-459	KIT, NOZZLE SECTION ASSEMBLY, W-67 and WB-67 HYDRANT DDP NOZZLE SECTION #60 (1), #10 (2), #10C (1), #12 (2), #12A (1), #9 (1), #9A (1) Indicate color, direction of opening, and thread spec. Note: Price also applies to DDD Nozzle Section Assembly.	199.00
W.	K-460	KIT, NOZZLE SECTION ASSEMBLY, W-67 and WB-67 HYDRANT DD NOZZLE SECTION #60 (1), #10 (2), #12 (2), #9 (2) Indicate color, direction of opening and thread spec.	146.00

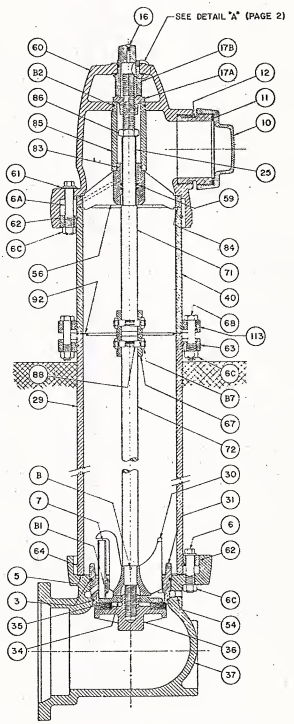
WATEROUS COMPANY
South St. Paul, Minnesota 55075

PARTS MATERIAL DESCRIPTION

WATEROUS PACER HYDRANTS

Models W-67 and WB-67

REF. NO.	DESCRIPTION	MATERIAL
3	O-ring packing	Buna-N
5	Flange gasket	Neoprene
6	Hex hd bolt, 5/8-11 x 3 in.	Cd-plated steel
6A	Hex hd bolt, 5/8-11 x 3-3/4 in.	Cd-plated steel
6B	Hex hd bolt, 5/8-11 x 3 in.	Cd-plated steel
6C	Hex nut, 5/8-11	Cd-plated steel
7	Drain plunger	Red brass
8	Cotter pin, 1/4 x 1-1/2 in.	Stainless steel, Type 304
9	Nozzle cap chain, single or double	Zinc-plated steel
10	Nozzle cap, hose or pumper	Cast iron, Class 30
11	Cap gasket	Neoprene
12	Nozzle, hose or pumper	Brass
16	Flat hd screw, 1/4-20 x 1/2 in.	Brass
17A	Operating nut, lower	Bronze
17B	Operating nut, upper	Cast iron, Class 30**
25	Valve-rod bushing	Red brass
28	Rod Assembly	Steel rod
29	Standpipe	Centrifugally cast ductile iron pipe*
30	Crossarm	Malleable iron
31	Valve seat	Bronze
34	Upper valve washer	Cast iron, Class 30
35	Main valve	Nitrile (other materials optional)
36	Lower valve washer	Cast iron, Class 30
37	Hydrant bottom	Cast iron, Class 30
40	Upper standpipe	Centrifugally cast ductile iron pipe*
54	Drain bushing	Brass
56	Suppor:	Cast iron, Class 30
57	O-ring packing	Buna-N
59	O-ring packing	Buna-N
60	Nozzle section	Cast iron, Class 30
61	Bury depth plate	Aluminum
61	Bury depth plate washer	Cd-plated steel
62	Lock ring clamp	Malleable iron
63	Breakoff section flange	Malleable iron
64	Flange lock ring	Stainless steel, Type 430
67	Coupling sleeve (2 halves)	Cast iron
71	Upper rod assembly	Steel rod
72	Lower rod	Steel rod
80	Thrust washer (Used until January, 1970)	Teflon
81	Groove pin, 3/32 x 7/16 in.	Beryllium copper
82	Upper tube seal	Buna-N
83	Lower tube seal	Buna-N
84	Support gasket	Buna-N
85	Support tube	Centrifugally cast iron pipe*, or Cast iron
86	Stop nut	Cd-plated steel
87	Coupling nut	Brass
88	Coupling stud	Stainless steel, Type 430
89	Operating nut bushing	Nylon
90	Thrust ring (Used starting January, 1970)	Teflon
92	Upper standpipe gasket	Neoprene
97	Valve seat insert	Bronze
99	Pipe plug	Brass
101	Weathershield nut	Ductile iron
102	Pin	Stainless steel
113	Breakable flange	Malleable Iron

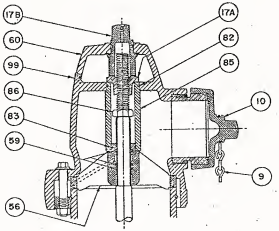


*AWWA Standard C-151-71 (ANSI 21.51.71)
**Bronze or ductile iron optional on some nut sizes.

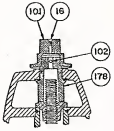
PARTS MATERIAL DESCRIPTION

WATEROUS PACER HYDRANTS

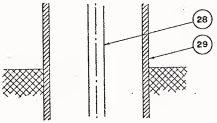
Models W67 and WB-67



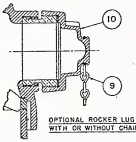
OPTIONAL OIL RESERVOIR



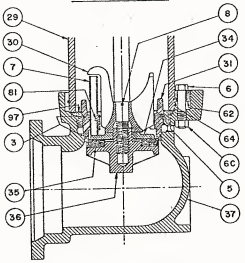
OPTIONAL
WEATHER SHIELD & NUT



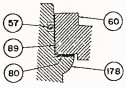
OPTIONAL NON-TRAFFIC (W67)
STANDPIPE & ROD



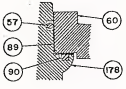
OPTIONAL ROCKER LUG CAP
WITH OR WITHOUT CHAIN



OPTIONAL BRONZE SEAT RING



DETAIL "A"
PRIOR TO 11-70



DETAIL "A"

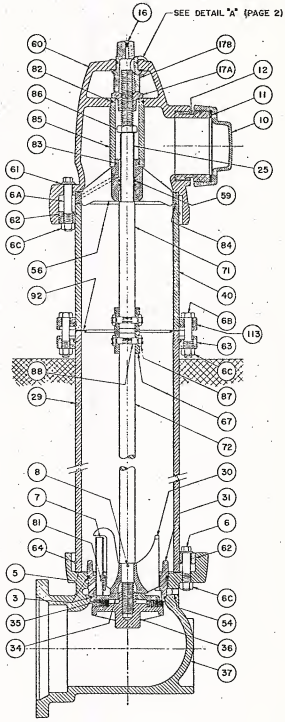
WATEROUS COMPANY
South St. Paul, Minnesota 55075

PARTS MATERIAL DESCRIPTION

WATEROUS PACER HYDRANTS

Models W-67 and WB-67

REF. NO.	DESCRIPTION	MATERIAL
3	O-ring packing	Buna-N
5	Flange gasket	Neoprene
6	Hex hd bolt, 5/8-11 x 3 in.	Cd-plated steel
6A	Hex hd bolt, 5/8-11 x 3-3/4 in.	Cd-plated steel
6B	Hex hd bolt, 5/8-11 x 3 in.	Cd-plated steel
6C	Hex nut, 5/8-11	Cd-plated steel
7	Drain plunger	Red brass
8	Cotter pin, 1/4 x 1-1/2 in.	Stainless steel, Type 304
9	Nozzle cap chain, single or double	Zinc-plated steel
10	Nozzle cap, hose or pumper	Cast iron, Class 30
11	Cap gasket	Neoprene
12	Nozzle, hose or pumper	Brass
16	Flat hd screw, 1/4-20 x 1/2 in.	Brass
17A	Operating nut, lower	Bronze
17B	Operating nut, upper	Cast iron, Class 30**
25	Valve-rod bushing	Red brass
28	Rod Assembly	Steel rod
29	Standpipe	Centrifugally cast ductile iron pipe*
30	Crossarm	Malleable iron
31	Valve seat	Bronze
34	Upper valve washer	Cast iron, Class 30
35	Main valve	Nitrile (other materials optional)
36	Lower valve washer	Cast iron, Class 30
37	Hydrant bottom	Cast iron, Class 30
40	Upper standpipe	Centrifugally cast ductile iron pipe*
54	Drain bushing	Brass
56	Support	Cast iron, Class 30
57	O-ring packing	Buna-N
59	O-ring packing	Buna-N
60	Nozzle section	Cast iron, Class 30
61	Bury depth plate	Aluminum
61	Bury depth plate washer	Cd-plated steel
62	Lock ring clamp	Malleable iron
63	Breakoff section flange	Malleable iron
64	Flange lock ring	Stainless steel, Type 430
67	Coupling sleeve (2 halves)	Cast iron
71	Upper rod assembly	Steel rod
72	Lower rod	Steel rod
80	Thrust washer (Used until January, 1970)	Teflon
81	Groove pin, 3/32 x 7/16 in.	Beryllium copper
82	Upper tube seal	Buna-N
83	Lower tube seal	Buna-N
84	Support gasket	Buna-N
85	Support tube	Centrifugally cast iron pipe*, or Cast iron
86	Stop nut	Cd-plated steel
87	Coupling nut	Brass
88	Coupling stud	Stainless steel, Type 430
89	Operating nut bushing	Nylon
90	Thrust ring (Used starting January, 1970)	Teflon
92	Upper standpipe gasket	Neoprene
97	Valve seat insert	Bronze
99	Pipe plug	Brass
101	Weathershield nut	Ductile iron
102	Pin	Stainless steel
113	Breakable flange	Malleable iron



*AWWA Standard C-151-71 (ANSI 21.51.71)
**Bronze or ductile iron optional on some nut sizes.

WATEROUS COMPANY
South St. Paul, Minnesota 55075

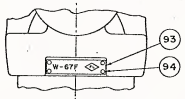
PARTS MATERIAL DESCRIPTION

WATEROUS PACER HYDRANTS

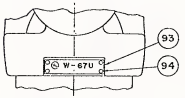
Models W-67F and W-67U

REF. NO.	DESCRIPTION	MATERIAL
3	O-ring packing	Buna-N
5	Flange gasket	Neoprene
6	Hex hd bolt, 5/8-11 x 3 in.	Cd-plated steel
6A	Hex hd bolt, 5/8-11 x 3-3/4 in.	Cd-plated steel
6C	Hex nut, 5/8-11	Cd-plated steel
7	Drain plunger	Red brass
8	Cotter pin, 1/4 x 1-1/2 in.	Stainless steel, Type 304
9	Nozzle cap chain, single or double	Zinc-plate steel
10	Nozzle cap, hose or pumper	Cast iron, Class 30
11	Cap gasket	Neoprene
12	Nozzle, hose or pumper	Brass
16	Flat hd screw, 1/4-20 x 1/2 in.	Brass
17A	Operating nut, lower	Bronze
17B	Operating nut, upper	Cast iron, Class 30
25	Valve rod bushing	Red Brass
28	Rod assembly	Steel rod
29	Standpipe	Centrifugally cast ductile iron pipe*
30	Crossarm	Malleable iron
31	Valve seat	Bronze
34	Upper valve washer	Cast iron, Class 30
35	Main valve	Nitrile
36	Lower valve washer	Cast iron, Class 30
37	Hydrant bottom	Cast iron, Class 30
54	Drain bushing	Brass
56	Support	Cast iron, Class 30
57	O-ring packing	Buna-N
59	O-ring packing	Buna-N
60	Nozzle section	Cast iron, Class 30
61	Bury depth plate	Aluminum
61	Bury depth plate washer	Cd-plated steel
62	Lock ring clamp	Malleable iron
64	Flange lock ring	Stainless steel, Type 430
81	Groove pin, 3/32 x 7/16 in.	Beryllium copper
82	Upper tube seal	Buna-N
83	Lower tube seal	Buna-N
84	Support gasket	Buna-N
85	Support tube	Cast iron
86	Stop nut	Cd-plated steel
89	Operating nut bushing	Nylon
90	Thrust ring	Teflon
91	Pipe plug (optional)	Bronze
93	Plate, UL or FM marker	Aluminum
94	Drive screw	Steel

*AWWA Standard C-151-71 (ANSI 21.51-71)



FM IDENTIFICATION PLATE



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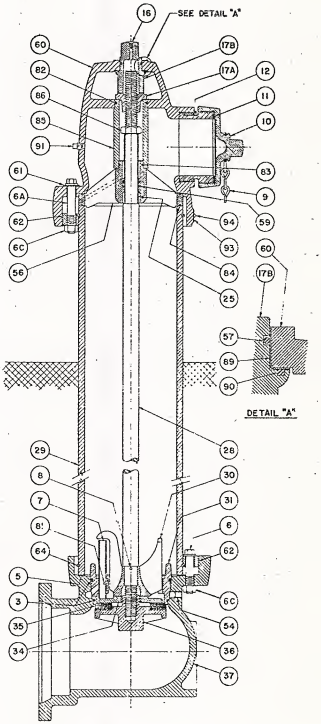
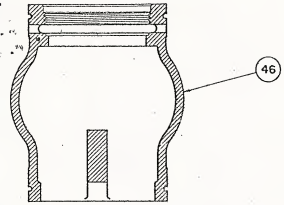
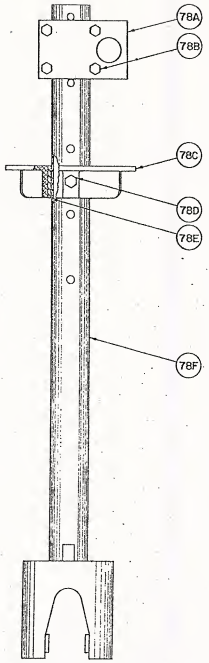
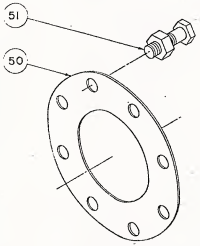




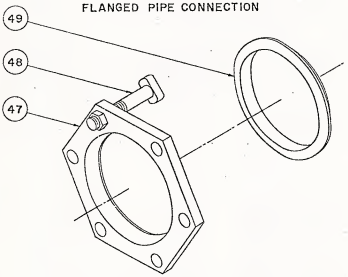
BOTTOM STANDPIPE EXTENSION



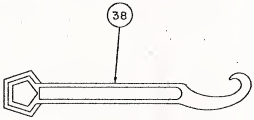


GASKET, BOLTS, AND NUTS FOR FLANGED PIPE CONNECTION

ADJUSTABLE, LIGHT-WEIGHT DISASSEMBLY WRENCH



MECHANICAL JOINT ACCESSORIES



OPERATING WRENCH AND HOSE SPANNER

HYDRANT ACCESSORIES
PLATE 71-4-10
WATEROUS COMPANY
SOUTH ST. PAUL, MN 55075

WATEROUS COMPANY
South St. Paul, Minnesota 55075

PACER HYDRANTS PARTS MATERIAL DESCRIPTION

SK800817
August, 1980

Ref. No.	Part No.	Part Name	Material	Waterous Spec. No.	ASTM or Other Spec.*	Weight (lbs)
3	5214	Packing, Valve Seat, lower and upper O-rings	Buna N 90 Durometer	-	D2000 7EG915B14E14E34E51E61L14	
5	50673	Gasket, flange, lower standpipe	Neoprene	-	D735SC815	
6	51480	Bolt, Hex hd, 5/8-11 x 3 in.	Steel, cd or zinc pltd	-	SAE Grade 5	
6A	51484	Bolt, Hex hd, 5/8-11 x 3-3/4 in.	Steel, cd or zinc pltd	-	SAE Grade 5	
6B	W1010-48HTSP	Bolt, Hex hd, 5/8-11 x 3 in.	Steel, cd or zinc pltd	-	SAE Grade 5	
6C	W2010SP	Nut, Hex, 5/8-11	Steel, cd or zinc pltd	-	SAE Grade 5	
7	51469	Plunger, Drain	Brass	M3800-1	B-135, Alloy 230	
8	W3508-24SS	Pin, Cotter, 1/4 x 1-1/2 in.	304 Stainless Steel	-	-	
9	51482	Chain, nozzle cap, single	Steel, zinc pltd	-	-	
9	51483	Chain, nozzle cap, double	Steel, zinc pltd	-	-	
10	-	Cap, Nozzle	Cast Iron	M1301B	A48, Class 30B	4.0
10	-	Cap, Pumper	Cast Iron	M1301B	A48, Class 30B	8.75
11	-	Gasket, Hose nozzle cap	Neoprene	-	D735 SC715	
11	-	Gasket, Pumper nozzle cap	Neoprene	-	D735 SC715	
12	-	Nozzle, Hose	Bronze	M2400	B584-73 Alloy 836	1.25
12	-	Nozzle, Pumper	Bronze	M2400	B584-73 Alloy 836	4.75
16	W9125-8B	Screw, flat hd, 1/4-20 x 1/2 in.	Bronze	-	-	
17A	51470L or R	Operating nut lower, RH or LH	Bronze	M2402	B584-73 Alloy 865	1.25
17B	61906	Operating nut, upper	Cast Iron	M1301B	A48, Class 30B	2.0
25	51124	Bushing, Valve rod	Brass	M3918-17	B135, Alloy 230	
28	62271R or L	Rod Ass'y, RH or LH	Steel	M1016-20	576, Grade C-1045 (2)	36.8
29	62382	Standpipe, W67	Ductile Iron Pipe	M1311	ANSI A21.51-71(AWWA C151-71) (1)	283.0
29	62383	Standpipe, WB-67	Ductile Iron Pipe	M1311	ANSI A21.51-71(AWWA C151-71) (1)	253.0
30	61735	Crossarm	Malleable Iron	M1303	A47, Grade 32510	2.5
31	71530	Valve Seat	Bronze	M2400	B584-73 Alloy 836	5.0
34	61733	Washer, valve, upper	Cast Iron	M1301B	A48, Class 30B	1.75
35	61920	Valve, Main, Rubber	Nitrile	M5700	D735, Type SB920A,LZ	0.5
36	61919	Valve Washer, lower	Cast Iron	M1301B	A48, Class 30B	5.5
37	-	Bottom	Cast Iron	M1301B	A48, Class 40B	105.0
40	62388	Upper standpipe	Ductile Iron Pipe	M1311	ANSI A21.51(AWWA C151-71)	30.0
47	Gland, Mechanical joint		Cast Iron	-	ANSI A21.11.72 (3)	11.5
48	-	T-Head Bolt and Nut	Cast Iron or Cor-ten	-	ANSI A21.11-72	
49	-	Gasket, Mechanical joint	Rubber	-	ANSI A21.11-71	0.8
54	51067	Bushing, Drain	Brass	M3908-07	B135, Alloy 230	
56	71313	Support	Cast Iron	M1301B	A48, Class 30B	9.5
57	W3724-4	Packing, O-ring	Buna N, 70 Durometer	-	D2000 2BG720B34E14E34E51E61L14	
59	W3718-4	Packing, O-ring	Buna N, 70 Durometer	-	D2000 2BG720B34E14E34E51E61L14	

*ASTM unless otherwise noted.

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60	-	Nozzle Section	Cast Iron	M1301B	A48, Class 30B	60.0
61	61741	Plate, bury depth	18 ga. aluminum sheet	-	-	
61	W4010CA	Washer for above	Cd pltd steel	-	-	
62	61726	Clamp, Lockring	Malleable Iron	M1303	A47, Grade 32510	0.5
63	61724	Flange, standpipe	Malleable Iron or Ductile Iron	M1303 M1300	A47 Grade 32510 A536 Grade 65-45-12	6.5
64	50676	Ring, Flange lock	430 Stainless Steel	M1207-4		
67	62266	Coupling half	Cast Iron	M1301B	A48, Class 30B	0.8
71	61737R or L	Rod, Upper, RH or LH	Steel	M1016-22	576, Grade C1045	7.2
72	62273	Rod, lower	Steel	M1016-22	576, Grade C1045	(2) 29.6
81	W10103-7C	Pin, Groove, Type 2	Beryllium Copper	-	-	
82	W3738-4	Seal, Tube	Buna N, 70 Durometer	-	D2000 2BG720B34E14E34E51E61L14	
83	W3730-4	Seal, Tube, lower	Buna N, 70 Durometer	-	D2000 2BG720B34E14E34E51E61L14	
84	51479	Gasket, support	Buna N	-	D735 SB720-BE3	
85	61725	Tube, Support	Cast Iron	M1301B	A48, Class 30B	.05
86	W2416CA	Stop Nut, RH or LH	Steel, cd or zinc pltd	-	-	
87	V1853	Nut, Coupling	Brass	-	-	
88	51481	Stud, Coupling	430 Stainless Steel	-	-	
89	51471	Bushing, Nylon	Nylon 101	-	-	
90	V1954	Thrust washer	Chemloy (filled Teflon)	-	-	
92	51584	Gasket, Flange	Neoprene	-	D735 SC815	
101	62024	Weathershield nut	Ductile Iron	M1300	A536 Grade 65-45-12	
102	W10108-32SS	Pin, Groove, type 2	303 Stainless Steel	-	-	
113	61724-1	Flange, Breakable	Malleable Iron or Ductile Iron	M1303 M1300	A47 Grade 32510 A536 Grade 65-45-12	6.5

(1) Weights shown are for 7'-6" bury hydrant; for longer or shorter bury depth add or subtract 36 lb/ft. Example: Standpipe for 8 ft. 0 in. bury W-67 weighs 301 lbs.
(2) Weights shown are for 7'-6" bury hydrant; for longer or shorter bury depth add or subtract 4.2 lb/ft.
(3) Weight of 6" Gland (Ref. No. 47).

*ASTM unless otherwise noted.
**Weights shown are subject to casting variations, and where no weight is shown, part weighs less than 1/2 lb.

PACER HYDRANTS PARTS MATERIAL DESCRIPTION

W67, WB67 HYDRANT PAINT

Black Asphalt Paint M4126	Mil-C-450C, Type 2
Buff Primer M4127	
Green M4105	
Yellow M4106	
Orange M4107	
Black M4110	
White M4109	
Aluminum M4111	
Sea Green M4125	
Red M4104	
National Blue M4137	
Lime Yellow M4138	
Off White M4139	

Date March 20, 1981

To: Aaron Gluck Purchasing Director

Subject: Bid for 1981 Fire Hydrants

I would like to have the bid from Treaty Company for our Fire Hydrants. The Treaty Company offers the best bid because of the 13% discount on the parts. We also have in supply parts for their hydrants.

Charlene Bloom

Charlene Bloom

WATER MAINTENANCE & SERVICE DEPARTMENT

Thank you

FORM U-109

Admn. Appr. _____

DIGEST SHEET

S-81-04-17

TITLE OF ORDINANCE CITY UTILITIES P.O. 4-09480 FOR FIRE HYDRANTS FOR WATER MAINTENANCE AND SERVICE DEPT.

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS

SYNOPSIS OF ORDINANCE CITY UTILITIES P.O. 4-09480 FOR 200 FIRE HYDRANTS FOR THE WATER MAINTENANCE AND SERVICE DEPT.. THE BID FROM THE TREATY COMPANY REPRESENTS THE LOWEST AND BEST BID. THE HYDRANTS ARE ALSO COMPATIBLE WITH ALL HYDRANTS PURCHASED FOR THE LAST THREE YEARS. THIS RESULTS IN A LOWER COST IN STOCKING REPAIR PARTS. THEY ALSO OFFER A 13% DISCOUNT ON THE PARTS.

EFFECT OF PASSAGE THE CITY WILL HAVE AN ADDITIONAL 200 FIRE HYDRANTS THAT MEET THE 1981 REQUIREMENTS.

EFFECT OF NON-PASSAGE THE ABOVE DESCRIBED PASSAGE WILL NOT OCCUR.

MONEY INVOLVED (DIRECT COSTS, EXPENDITURES, SAVINGS) 200 FIRE HYDRANTS AT $456.79 EACH. TOTAL COST TO CITY UTILITIES IS $91,358.00

ASSIGNED TO COMMITTEE (PRESIDENT) _____

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